Release Note v0.1

18-March-2021

## Release Package

1. Poly\_Suite: Binary of the Suite which users can download and run in their machine after some configuration. Poly\_Suite provides the User Interface of all the components like Autoware, Lg Simulator, Perception Stack, etc. It runs the test cases on the simulator with the different weather conditions the simulator.It uses the AutowareAuto perception stack and validates it in different conditions, and generate data for the validation.
2. Poly\_Suite\_Src: It has a source code of the Poly\_suite application which is developed in QT.
3. lg\_sim\_06: This is modified lg\_simulator binary, which has the hook for getting the lidar's point cloud data and modified outside and pushes back to the vehicle sensor on the LG simulator. This data again will publish to the ROS Bridge and used by any stack like preception stack of the AutowareAuto.
4. Simulator\_Src: This is the source code of the modified lg simulator.
5. PythonAPI: This is a modified API package that plays a role to communicate the python script with the LG simulator.It has the APIs to get data from the LG simulator and user-modified that data insert it into the LG Simulator for publishing.
6. PcdModificationTestScript: This test script is used modify point cloud data of lg simulator and set back to the simulator for publishing on the ROS bridge.
7. Test\_Cases: This folder has some basic test cases to run the simulation using the Poly\_Suite
8. Documentation: Prepared and added below documentation for setup the and run the PolyVerif Suite application-
   1. Node\_Setup: This document has the steps of build the perception validation node **(Node\_lg\_groundtruth\_data\_ws)** which will later used by the Poly\_Suite application for validating the autoware perception stack.
   2. PolyVerification\_Suit: This document has the steps of running the poly\_suite application. It also contains the information of the generated data for the validation of the autoware perception stack.

## Known Issues/Points:

* This release has only provided you the **“Digital Semantic Test Suite”** functionality and tested for the same. It has not included the “Control Validation Suite”.
* When we start the Poly\_Suite and click on the Start Ade button, it takes time to initialize and start every component.
* Sometimes when there is lots of data generated by the simulation, it takes time to process and generate report.

For further use please refer the READ ME.