

Sprint 4 Plan

Goal: Modify rogue car class implementation to be more secure, implement collected data into DSRC, implement all SUMO modifications in a complex testbed.

Total points: 56 points

User Stories:

- 1. As a Developer, I want TraCI python functions to rely on object interactions rather than coordinate interactions [Ryan] (18).**
 - a. Modify TraCI source code to use node implementation rather than node coordinates. (11).
 - b. Finish edge customization function that allows a vehicle to traverse a specific edge at a reduced speed. (7).
- 2. As a developer, I want a fully modular rogue car and DSRC design that is viable in more complex scenarios than the original testbed. [Harshaan] (15)**
 - a. Implement rogue car into complex simulation. (5).
 - b. Implement DSRC into complex simulation. (5).
 - c. Look into compressing the time for all simulation scenarios ie. 5 hours to 5 minutes. (5)
- 3. Packetize traceable DSRC data using CISCO proprietary encapsulation code to be transmitted to Veins [Alexis] (23)**
 - a. Retrieve and understand CISCO DSRC packetization code. (5)
 - b. Convert standard output to data transmitted over TCP socket. (11)
 - c. Convert XML data to JSON. (7)