

fortiss

Platooning Team

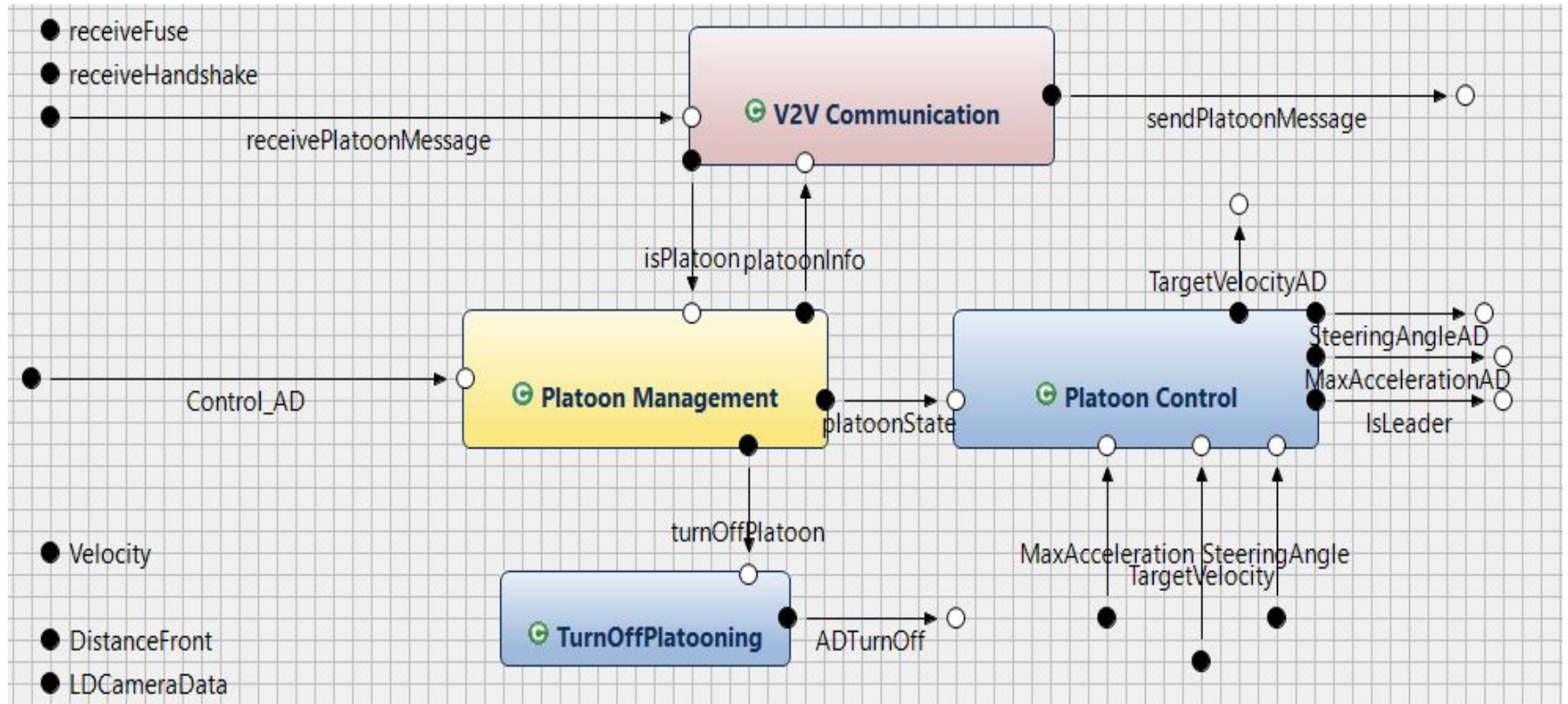
Group Status Presentation

May 16, 19

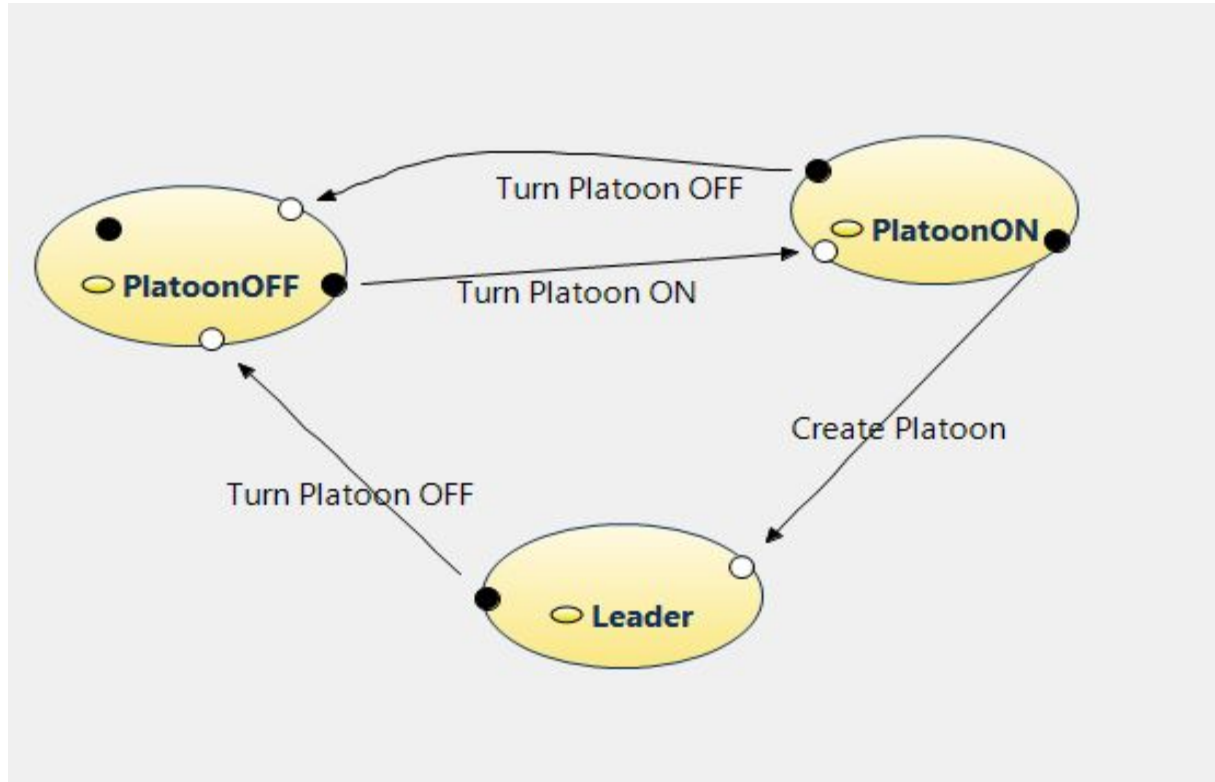
Status (from 09.05 to 16.05)

- Connect to car via router for further deployment
- Analysis requirements of leader functionality
- Work on Autonomous Driving Component on af3
 - Assignment of ids (uid, platoonID and messageID)
 - State transition of platoon management
- Run the code on simulator and car

Autonomous Driving Component



State transition of platoon management



UDP-message on Wireshark

The image shows the Wireshark network protocol analyzer interface. The top toolbar includes icons for file operations, network analysis, and search. The filter bar at the top displays the expression `udp&&ip.addr==192.168.1.113`. The packet list pane shows a series of UDP packets from source 192.168.1.113 to destination 255.255.255.255, all with source port 9990 and length 59. The packet details pane for frame 126 shows the following structure:

- Frame 126: 59 bytes on wire (472 bits), 59 bytes captured (472 bits) on interface 0
- Ethernet II, Src: Raspberr_9c:c7:77 (b8:27:eb:9c:c7:77), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
- Internet Protocol Version 4, Src: 192.168.1.113, Dst: 255.255.255.255
- User Datagram Protocol, Src Port: 9990, Dst Port: 9990
- Data (17 bytes)

The packet bytes pane at the bottom displays the raw data in hexadecimal and ASCII:

```
0000  ff ff ff ff ff ff b8 27  eb 9c c7 77 08 00 45 00  ....w.E.
0010  00 2d fb a3 40 00 40 11  7d 03 c0 a8 01 71 ff ff  -..@.@.}.q.
0020  ff ff 27 06 27 06 00 19  eb 86 04 ff ff ff ff 08  .'.'. ....
0030  00 00 00 04 00 00 00 04  00 00 00  ....
```

Outlook

- Remained Issues
 - V2V SendPlatoon message consistency
 - Implementing Platoon Controller Component
- Start to implement the follower functionality