**Data format for log files, CACC vehicles**

1. Month
2. Day
3. Year
4. Hour
5. Minute
6. Second
7. Millisecond
8. Vehicle ID
9. Timestamp
10. Control mode/state
11. Vehicle-to-intersection engagement flag
12. Control state machine status
13. My position in platoon
14. Longitudinal speed
15. Integrated fuel rate
16. Longitudinal acceleration
17. Target vehicle valid
18. Relative distance with target vehicle
19. Relative speed with target vehicle
20. Relative lateral position with target vehicle
21. Throttle command
22. Brake command
23. Reference speed
24. Reference acceleration
25. Reference time gap
26. ACC time gap
27. ACC spacing error
28. ACC feedback structure output
29. ACC reference speed
30. V2V timer
31. CACC time gap
32. CACC spacing error
33. CACC feedback structure output
34. CACC reference speed
35. CACC feedforward structure output

**Platoon vehicle 1**

1. ID
2. Position in platoon
3. Control mode/state
4. Reference speed
5. Reference acceleration
6. Longitudinal speed
7. Reference time gap
8. Spacing with preceding vehicle

**Platoon vehicle 2**

1. ID
2. Position in platoon
3. Control mode/state
4. Reference speed
5. Reference acceleration
6. Longitudinal speed
7. Reference time gap
8. Spacing with preceding vehicle

**Platoon vehicle 3**

1. ID
2. Position in platoon
3. Control mode/state
4. Reference speed
5. Reference acceleration
6. Longitudinal speed
7. Reference time gap
8. Spacing with preceding vehicle

**V2I Intersection data**

1. V2I fault timer
2. CAV-Simulation synchronization flag
3. Localization ego-coordinate from start
4. Virtual vehicle coordinate from start
5. Relative speed with virtual vehicle
6. Trajectory planning enabled flag
7. Time to queue or intersection
8. Remaining time for green cycle
9. Trajectory planning acceleration