Requirements for the interaction / communication between the trucks

1. Vehicle-to-vehicle (V2V) communication: This allows trucks to communicate data such as speed, direction, and acceleration/deceleration rates. Wireless communication systems such as Dedicated Short-Range Communications (DSRC), Cellular Vehicle-to-Everything (C-V2X) can be used to do this.

2. Sensor data: To improve situational awareness and safety, trucks in a platoon can share sensor data such as radar, lidar, and camera information. This information can be utilized to detect barriers, other vehicles, pedestrians, and other road dangers.

3. Active braking: Trucks in a platoon can interact with one another to coordinate brake attempts, lowering the danger of rear-end crashes. This necessitates real-time communication between the vehicles so that they can react promptly to changes in the speed or direction of the lead vehicle.