

Overview

- Commercial vehicle operators take on huge responsibility each time they transport passengers. Passengers expect to reach their destination safely, and there can be significant repercussions if they do not.
- Many driver monitoring applications are unable to correlate common safety risks, like dangerous road conditions, disruptive passenger behavior or malfunctioning equipment to deviations in driving behavior, in part because networking technology is not optimized for mobile vehicles.
- LILEE Systems specializes in transportation solutions to improve safety, efficiency and passenger experience. By combining onboard CCTV with safety events and GPS location, operators now have real-time, video-based situational awareness and video-based ledgers of operational conditions to mitigate risk, personalize driver coaching and improve efficiency.

SafeRide protects passengers, drivers and assets

SafeRide simplifies the way operators monitor and analyze operational conditions to mitigate risk and improve performance

Today, we are seeing growing evidence that transportation providers are key to the future of modern cities. Higher demand combined with increasing road congestion and expectations around passenger experience are creating pressure for transportation providers, to find ways to ensure safety. There are many variables that can degrade safety and passenger experience. Some of the most common causes of bus accidents include:

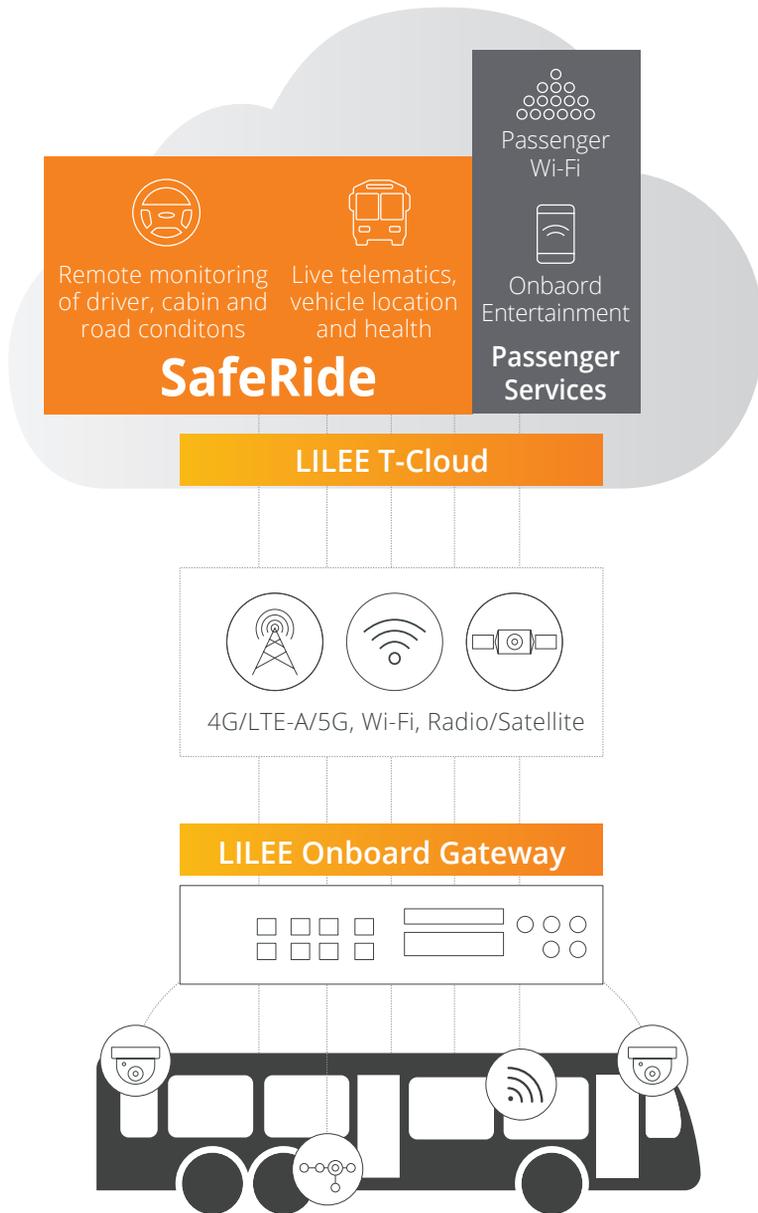
1. Distracted or drowsy drivers
2. Defective or malfunctioning equipment
3. Road and cabin distractions

Finally, safety solutions also need to protect vehicle operators. The good news is that new technology can help operators protect drivers, passengers and assets with video-based intelligence, even when vehicles are out on the road.



SafeRide is a video-based safety solution designed to simplify the way fleet managers, safety officers and owners understand and manage conditions that affect safety and passenger experience.

1. **Live View** supports views streamed from up to 8 cameras per vehicle to monitor roads, cabin conditions and drivers to enhance situational awareness
2. **Safety Events** include braking, acceleration, speeding, cornering, idling, check engine alerts with DTC and driver-signaled emergencies
3. **Alerts and Notifications** Events can trigger email and SMS alerts. Alerts are customizable by type and program
4. **Event-Based Videos** record 30 seconds of video around each event
5. **Video-on-Demand** up to 60-minute segments of stored audio-visual records can be retrieved for video-based condition assessments
6. **Live Telematics** provide information on vehicle health, GPS location and can track up to 30-day route history



Solution Approach

The elements of the SafeRide platform are:

- 1. The LILEE STS-1020 gateway** is installed onboard. It supports two active and two standby SIM's and all four major cellular providers, contains two solid state drives and is capable of edge computing.
- 2. LILEE-OS** merges multiple wireless connections into a predictable, manageable network, ensuring reliable connectivity even as vehicles travel through cellular networks.
- 3. LILEE T-Cloud** enables operators to monitor LTE and Wi-Fi status, usage and statistics, and application analytics and provides remote provisioning of gateways
- 4. The SafeRide** application stores Safety Events, videos on demand and enables access to live look-ins and configuration of Alerts and Notifications.

Benefits

Videos can be retrieved remotely, no matter where the bus is located.

Video-based Reports eliminate ambiguity, reinforce safe driving practices and help improve operational efficiency.

Only short, relevant videos are sent and saved to the cloud, resulting in significant cost savings.

Videos are available for coaching and insurance support to exonerate operators from false claims.

Zero-touch cloud management allows centralized device onboarding, configurations and updates.

Summary

SafeRide video-based safety solution can be combined with any of LILEE's passenger experience solutions, such as Enterprise-Grade Wi-Fi. It gives transportation providers a unified operational console with minimal hardware installation, reducing system complexity and streamlining workflows.

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