



Fleet Management System

The Fleet Management System (FMS) is a powerful solution used in public transportation for real-time and past vehicle monitoring, for optimizing routes and improving overall fleet efficiency. FMS tracks vehicle location, speed, and status to provide up-to-date information for comprehensive decision-making.

By monitoring fuel usage, FMS helps to implement strategies to reduce consumption and achieve cost savings while minimizing environmental impact. The system improves safety and enhances operational performance.

FMS provides accurate estimated time of arrival (ETA) information for the Passenger Information System (PIS). FMS also collects data that enables monitoring of driver behavior.



**VEHICLE
TRACKING**



**TRIP
MONITORING**



**FLEET HEALTH
MONITORING**



**REPORTS-DATA
ANALYTICS**

Fleet Management System

Vehicle Tracking

- Web-based platform with high-resolution maps
- Replays and reviews past or real-time sequences of locations
- Displays events repository (driver, trip, message, alarm, etc.)
- Implements playback controls for viewing the entire sequence of locations between selected time periods backwards and forwards
- Shows and manages incident alarms (accidents, violence, ambulance, etc.)
- Supports different types of geo-fence events (bus entry, exit, inside movement, etc.)
- Provides short message service (SMS)



Trip Monitoring

- Displays schematic/graphic representations of routes, stops, and buses
- Shows real-time positions of buses on the route
- Displays timetable and headway adherence
- Generates warnings by comparing events from the timetable and real-time data
- Displays color-coded early/late bus warnings
- Shows route, vehicle, and bus stop information



Fleet Health Monitoring

- Provides accurate real-time monitoring of various mechanical and electrical components installed on the vehicle
- Utilizes the CAN bus network to display engine performance, speed, fuel consumption, etc.
- Displays event repository (speeding, harsh braking, etc.)
- Supports electrical bus monitoring (battery level, charging, energy recuperation)



Reports - Data Analytics

- Provides all basic information necessary for the operation, maintenance and analysis of FMS
- Gives summary or detailed reports to provide the historical view of data within the date range
- Supports integration with data analytics tools and allows users to create custom dashboards. The data can also be exported with the Report API.

