



CASE STUDY

**Industry 4.0 based Fleet Tracking
and Monitoring Solution**
enabling proactive maintenance &
optimized operational costs

Client

A leading American control system manufacturer for the industrial, transportation, aviation & power generation sector



Business Challenge

- ❖ Unavailability of real-time monitoring of vehicles in fleet & lack of proactive maintenance increased idle time of the vehicle resulting in escalated operational expenses
- ❖ Absence of real-time view of vehicle geo-positions resulted in poor planning of fleet
- ❖ Fuel consumption could not be optimized due to the unavailability of real-time tracking of driver's performance and asset handling



ITC Infotech Solution

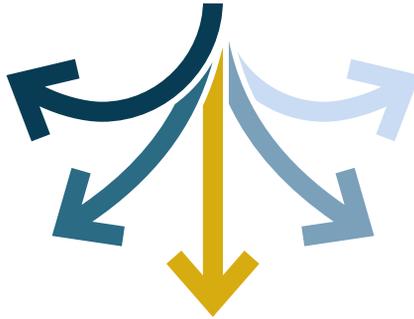
ITC Infotech assessed the challenges and tailor-made a cloud-based IoT solution to gain real-time tracking capability of the vehicles

- ❖ A Bluetooth based truck diagnostic module connected to OBD port using J1939 interface for real-time monitoring of engine vital information
- ❖ Round the clock connectivity with online & offline data storage modes for uninterrupted data storage & processing
- ❖ Monitors & reports driver behavior like speeding, excessive idling, sudden acceleration, and hard braking leading to fuel wastage
- ❖ Multi-faceted mobile app to locate the assets on a map, view real-time fuel consumption and pre-defined fault codes resolution system for frequently occurring issues
- ❖ Predictive analysis on the data from multiple sensors installed in the vehicle for increased safety & reduced downtime
- ❖ Route plan optimization, maximization of fleet usage & real-time positioning with geocoordinates

Business Benefits

Economical driving improved leading to fuel economy improvement by **20%**

Driver productivity increased by **8-10%** leading to decreased trip time



Optimized route plan decreased the idle time of trucks thus increasing the revenue

Reduction in accidents due to monitoring of driver's performance

With monitoring of engine parameters, maintenance cost decreased by **7%**



About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

www.itcinfotech.com

