

# FLEET MANAGEMENT PLATFORM

Powered By:

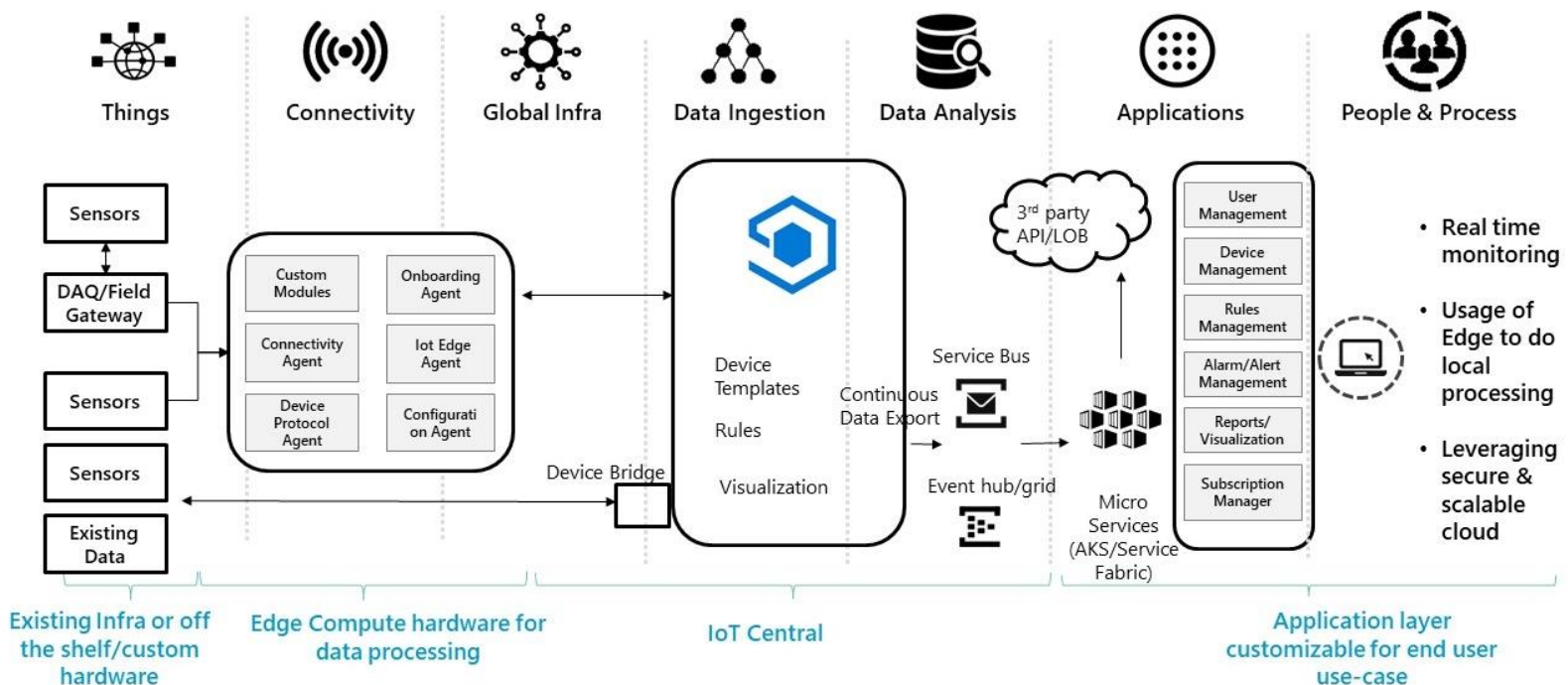


## Overview

Our Fleet Management Platform is a comprehensive management tool that enables business owners to locate, track, monitor and assess their fleet in real-time, 24x7. It also facilitates owners to trace the location, status, condition and estimated arrival time of an in-transit fleet. Comprehensive and feature-rich, Fleet Management platform is equipped with trip management, vehicle diagnostics & reports, driver behavior analytics and alert creation all this coupled with a user-friendly mobile and web app to manage everything easily.

## Platform Architecture

Fleet Management Platform integrates multiple vehicle-monitoring sensors with a centralized field gateway which then passes on the data to Microsoft Azure. The data is processed on Azure to provide real time and predictive analytics to multiple stakeholders.



## Key Features

### User Management

- Super admin, fleet admins
- Fleet owner / executive, drivers

### Fleet Management

- Create fleets
- Addition of drivers / vehicles
- Vehicle onboarding
- Dongle – vehicle association

### Excel-based Import

- User / vehicle
- Dongle / fleet or company

### Trip Management

- Live tracking (location)
- Total trip for vehicle
- Distance / time / route
- Per trip diagnostics
- Fault code on a trip

### Vehicle Diagnostics & Report

- Status (connected / offline)
- Faulty vehicles / fault codes
- Diagnostic parameters such as engine condition, powertrain pressure & temperature information etc.

### Driver Behaviour Analytics

- Fuel economy rating
- Driving in efficient RPM band
- Braking behaviour
- Acceleration behaviour

### Alert Creation

- Customizable alert setting e.g.
  - Geo-fencing alert
  - Idle fuel-use alert
  - Average fuel-economy alert

### Mobile App

- User on-boarding
- Vehicle discovery & management
- Maintain connected-vehicles' list
- Vehicle discovery
- Connect with vehicle using dongle
- J1939 / 15031 functionality
- Reading parameters / sending to cloud
- Read / reset fault code
- Location support

### Daily / Weekly / Monthly Reports

- Per fleet report
- Per vehicle report
- Per fault code
- Per location
- Graph per parameters

## Azure Resources



IoT Hub



Stream Analytics  
Jobs



Document DB  
(aka Cosmos DB)



SQL Server  
+ SQL DB



App Service  
(Web Apps)



Storage  
Account



Machine  
Learning



Event Hub

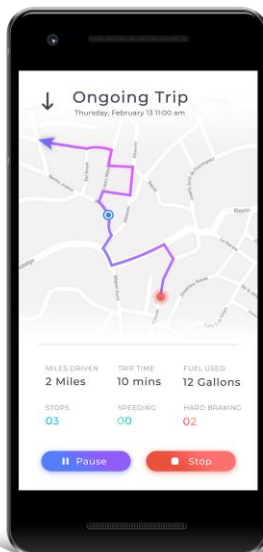


App Insights

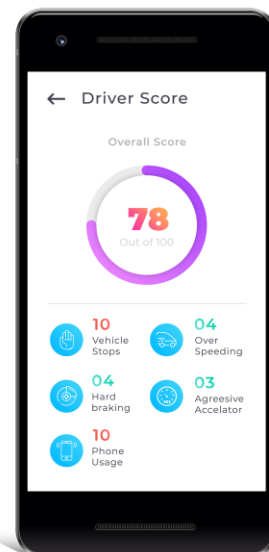
## Platform Screenshots (Mobile & Web)



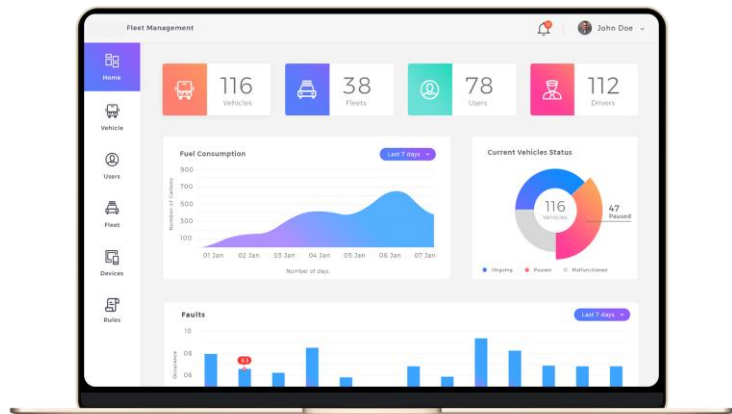
Dashboard



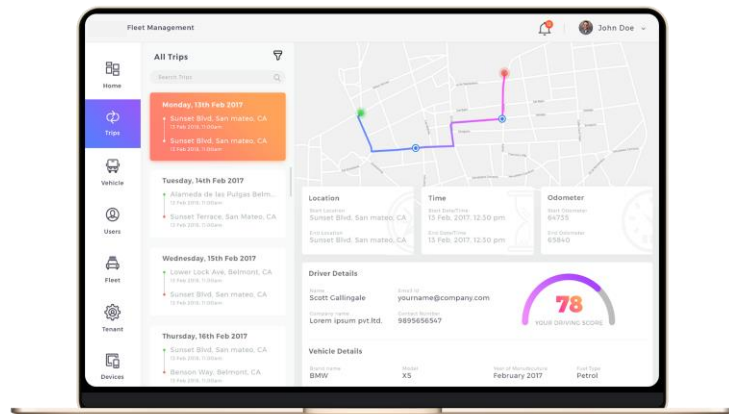
Trip Details



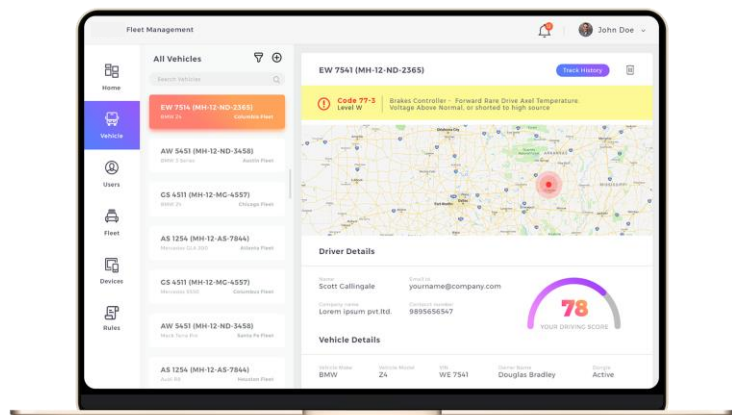
Driver Analytics



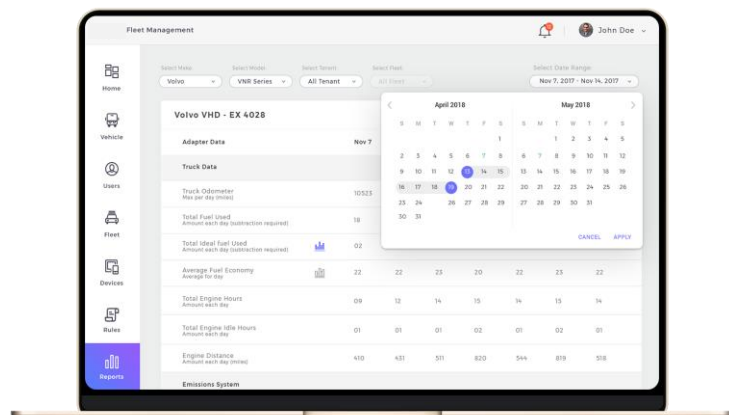
Unified Dashboard View



Trips Management



Vehicle Management



Reports





## Case Study: Fleet Management Solution

Our Client, a major lubricant manufacturer in the US, wanted us to develop a white-labelled, turnkey solution, which they could further offer to their clients as a value-addition, to their existing services portfolio.

We believed, their customer-base, primarily the owners and administrators of large fleets of vehicles, would benefit immensely from our Fleet Management Solution – a solution which not only provides user's with vehicle route data, but also with analytics on vehicles' & drivers' performances – essentially translating into increased efficiency and thus cost savings.

Our Fleet management solution, leveraging Internet of Things and custom Deep Learning algorithms, tailored as per their requirements would enable their clients' to:

- Enhance route efficiency through fleet tracking
- Assess Vehicles' Performance
- Assess Drivers' Performance
- Get better understanding of the driving habits & conditions to make appropriate adjustments for optimized performance
- Take early decisions through Preventive or Predictive Maintenance