IoT SYSTEMS

IoT is changing the fleet management industry fast and giving fleet operators new capabilities to reduce cost and manage their fleet even more efficiently. IoT involves various tools and services which can be used as required by every fleet operator. Some of the ways how IoT benefits the fleet operators are given below.
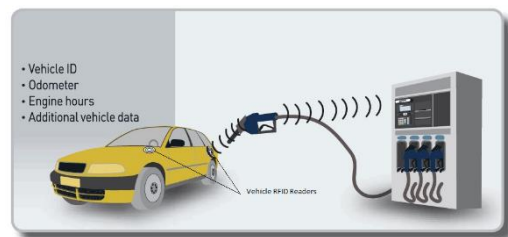
Asset/vehicle/GPS tracking-

In the transportation is very important to track your asset/vehicle and drivers. Today its possible to obtain a lot more information of your asset, than just their location. A lot has been written about it hence we will not go into further detail for this. However apart from location tracking IoT is also used by many company to plan the vehicle routes and dynamically reroute the vehicles if required based on traffic and customer details. This has a direct impact on the fuel efficiency and fleet's productivity and efficiency as well.

Fuel management-

Fuel being a daily operational cost, all companies want to close monitor it and ensure the most optimum and efficient use of fuel to save costs. IoT tools are used at many levels for fuel management;

a) RFID: RFID technology can be used to ensure fuel is filled only in the desired vehicle and also automate the fuel filling recording process reducing any human error and theft possibilities.

b) Vehicle mileage: IoT tools which are at times used with the asset tracking tool to monitor the mileage of the vehicle and also fuel tank levels.

c) Fuel theft: IoT tools can be used not just to monitor fuel tank filling and levels all the time but also to identify fuel theft as well.

Driver management-

IoT tools are used to monitor driving behaviour. You can monitor;

a) Driving speed and over speeding
b) Hard braking
c) Gear change habits
d) On route or off route
e) Unscheduled stops and idling
f) Seat belt on or off

And many more parameter.

Cameras can be used to not only to record outside the vehicle but also driver facial expressions to identify in real time if driver is not well or is sleepy.

Vehicle remote diagnostics-

IoT tools can be used to remotely monitor vehicle diagnostics and telematics. Tools can be used to monitor;

a) Preventive maintenance
b) Engine health / over heating
c) Battery health
d) Trouble codes
e) Mechanical and electrical part conditions

And many more parameters.

Such tools not only ensure timely and preventive maintenance but also reduce fleet maintenance costs.

All tools even though separate can be installed together as required and as per priorities to achieved the required objectives.

Suppliers:

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