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IoT in Modern Fleet Management Systems ⋯

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Integrated IoT Fleet Management Systems (FMS)

The Internet of Things (IoT) is both simple and complex at the same time.

Most vehicles are supported with ECM data capture. Transmission takes place via GPS tracking devices from global best in class from **Teltonika GPS** or **Tramigo**.

These IoT Solutions technology uses LTE (CaT1) 4G GSM, GPRS, GNSS (GPS), CAN and Bluetooth 4.0 (BLE) technology.

It is easy to get distracted by the complex technology "under the hood" but from the user or stakeholder perspective the technology is very user friendly and easy-to use. Managers, Supervisors, Team Leaders, Engineers, Technicians and even the

Mechanics are excited about this modern technology. There is something for everyone: a cost effective win-win solution.

Integrated Navixy Apps, Teltonika or Tramigo hardware (GPS Trackers) with **1oT.com** Data Connectivity

The integration of Navixy Apps with Teltonika GPS IoT Ecosystems (**FOTA Web**, **Configuration Tools**, **Helpdesk**) plus **1oT's Terminal Web service** produces autonomous cost effective Vehicle Tracking and FMS solutions.

Reading the Computer "Electronic Control Module or Unit (**ECM/ECU)**" Control Area Network (CAN) data from Cars, Trucks, Buses, Vans, Electric Vehicles, trucks, buses can easily be access and monitored. The ECM should not be confused with an **Event Data Recorder (EDR or EMDR)** which records events associated with the operation of a vehicle such as the speed the vehicle was travelling at before an accident.

The ECM or ECU continuously monitors important vehicle operational data such as **Speed, RPM, mileage, fuel level, and Engine Temperature**.

Image by Daniel Reche from Pixabay

The vehicle dashboard data of **Speed, RPM, mileage, fuel level, and Engine Temperature** is collected by the Teltonika GPS Tracker (OBD2 device or FT or FM

series trackers with CAN bus features) and sent to the Navixy (US or EU) server. **The Fleet Management (FM) / Asset management platform** stores this information. Using GPS tracker data, Driver BLE ID the Artificial Intelligence (A.I.) powered Navixy Software as a Service (SaaS) can generate reports that are useful to the Operations, Maintenance, Finance and Projects departments.

Caritrack.com ICT and Web Development

https://www.navixy.com/fleet-management/overview/

The Navixy Web App can be conveniently be accessed from the Internet Browser of any electronic device (Desktop computer, Tablet, Note Pad, iPad or Smartphone. Special Apps (**X-GPS Monitor** and **X-GPS Tracker**) are very popular among Vehicle Tracking, FMS and Asset Tracking Users.

https://youtu.be/zWVbDvsl_Kc

https://www.caritrack.com/industry-4-0-and-iot-telematics-articles/

The intent of these articles is to provide a Global Informative perspective along with practical advice commercial marketing researchers, business administrators and technology practitioners. Entrepreneurs, Fleet and Asset Managers, Engineers, Technicians and IT Professionals should gain greater insight on how real world problems can be solved by using modern affordable Industry 4.0 / IoT technology.

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