

Fleet Management System:

State of Art

By TCHUENKAM DJILO Lauris

Table of Contents

[Introduction 3](#_Toc1718334)

[1. Main features of a Fleet Management System 3](#_Toc1718335)

[2. Existing solutions 4](#_Toc1718336)

[3. References 5](#_Toc1718337)

# Introduction

A fleet management system is a system that allows to manage all the vehicle fleet of a company.

Such a system could be very benefit for a company because it aims to give more control on the company’s fleet and also to reduce expenses generated by this one.

# Main features of a Fleet Management System

Most of existing Fleet Management Systems have common features. Among them, we have those following.

* Vehicle tracking
* Inventory management
* Plan and control vehicle maintenance
* Routing
* Driver management

This includes:

* + Driver identification
  + Driver control
* On-board cash safe monitoring
* Vehicle information

This includes:

* + Fuel
  + Temperature
  + Speed
  + Battery
  + etc…
* Accident tracking
* Immediate alerts
* Geofencing

It also exist Fleet Management Systems that apply Machine Learning to increase the profitability of the fleet. Such systems use features like:

* Prediction of vehicle failures
* Detection of driver fatigue
* Detection of persons in the vehicle

# Existing solutions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Software | | Features | PROS | CONS |
|  | | * Accident Tracking * Driver management * Fuel management * Inventory management * Vehicle information * Maintenance Scheduling * Vehicle tracking | * Gets an API for connection with a third party application | * proprietary software * Not modular |
|  | | * Vehicle tracking * Driver control * Maintenance Scheduling * Fuel and temperature monitoring * Geofencing |  | * proprietary software * Not modular |
|  | | * Routing | * Gets an API for connection with a third party application | * proprietary software * Not modular |
|  | | * Vehicle tracking * Routing | * Open Source * Gets an API for connection with a third party application * Allows vehicle tracking | * Not modular |
| G:\Perso\Stage-5GI\Reports\fleetmanagement.png | **Odoo Fleet Management** | * Inventory Management | * Open Source * Free * Modular |  |

# References

* <https://www.landmarktracking.co.za/>
* <https://onfleet.com/>
* <https://www.fleetio.com/>
* <https://sourceforge.net/software/compare/Traccar-vs-Onfleet-vs-Fleetio/>
* <https://www.odoo.com/page/fleet>
* Intelligent Fleet Management (Technical White Paper) of Intel