GPS Tracking System

Geolocation by GPS is a tracking system that makes it possible to locate an object (car, person, animal, telephone, etc.) by attaching a GPS device to it.

In its simplest version, the plotter includes a GPS receiver and a position recording solution (latitude & longitude) at regular intervals.

This recorded information can be relayed in real-time by a mobile network (if the tracker is equipped with a data transmission system). Data can also be downloaded manually from the device when it is recovered. This type of device is also called a data logger.

All this data takes on meaning when it is processed by the software, which translates location information into points on a map.

GPS geolocation system, how does it work?

The GPS receiver integrated into the object to be geolocated gives GPS coordinates thanks to a distance calculation which separates it from several satellites. The terrestrial coordinates of the receiver are calculated and then converted into geographic coordinates (latitude, longitude, altitude).

In the context of a vehicle geolocation system, the GPS receiver is a box fixed in the vehicle. Thanks to a SIM card, data is sent back to a Saas platform at regular intervals of a few tens of seconds. These data are processed by the software via maps, reports, and graphics so that they can be viewed and analyzed instantly.

The benefits of **GPS tracking** for your business

The daily management of a fleet of vehicles is a complex exercise. It is difficult to choose the optimal routes without knowing where exactly each vehicle is located. This results in wasted time, high fuel costs, excessive mileage, and accelerated vehicle wear. To help you in this task, a GPS geolocation solution becomes a precious tool.

A geolocation system for professional fleets provides visibility into the location of vehicles, their fuel consumption, their mileage and other elements of driver behavior. Following these parameters helps to reduce operating costs while increasing the company's revenues. But beware, it is important to choose a system suited to your needs.

Fleet tracking is a management system that uses GPS technology to track vehicle activity.

The fleet is generally made up of vehicles or motorized vehicles such as cars, vans, trucks or construction equipment. **Fleet tracking** uses telemetric to collect data for a complete fleet.

These data are collected progressively in order to be as useful as possible for fleet managers. They use it to make strategic decisions on the daily management of their activity:

To which vehicle should I send this new task?

Where is the nearest delivery person?

Has my isolated collaborator returned from his work?

In order for fleet monitoring to be as effective as possible, it is important to combine it with fleet management software which judiciously interprets a large amount of data and consolidates it into dashboards, reports or alerts.

Management and monitoring of business fleet activity: the advantages

The benefits of fleet monitoring are multiple and act on several aspects of the activity. In fact, managers note improvements at various levels: cost reduction, increased driver safety, help with team management, optimization of productivity and customer service. By intelligently managing a single asset of the company, the manager acts on the whole of his activity. Fleet monitoring, therefore, has a significant impact on business and we can measure its impact on several levels.

How to integrate fleet monitoring?

Integrating fleet monitoring with your existing management tools is possible and even recommended! The Reveal API offers the possibility of tracking vehicles and drivers, retrieving working hours, distances traveled, entering and leaving zones, etc. using existing tools in the company. Thus, duplication of work, maintenance of different databases and associated errors are avoided.

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