Fahrerbewertung / Fahrstilanalyse

Evaluate and compare the driving behaviour of people.

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Summary

Content

The driver behaviour / driving analysis allows an evaluation of the driving behaviour of people. The reportcenter calculates for each journey in compliance with a variety of evaluation criteria a score from 1 to 10 (1=poor, 10=excellent).

The report is also able to consider trip difficulty. This allows a comparison of drivers with different vehicle types and use cases. The driver behaviour / driving analysis allows a detailed view on the events that have occured and external influences. It contains informations about the whole report period, but also detailed informations about every single ride.

Evaluation criteria

The driver behaviour / driving analysis calculates the total score by using the following evaluation criteria.

- **driving behaviour/critical event**
  - **Compliance with velocity restrictions:** Exceeding the defined speed limits by driving too fast
  - **Braking behaviour:** Exceeding the defined limits by heavy braking
  - **Accelerating behaviour:** Exceeding the defined limits by heavy acceleration
  - **Curving behaviour:** Exceeding the defined lateral G-forces (transverse acceleration) in curves
  - **Anticipatory driving:** evaluation of driving style based on braking and acceleration behaviour (only if the vehicle transmitted FMS/CAN data)
- **economy**
  - **Efficient vehicle motion/idle:** Minimization of idle with ignition on
  - **Efficient velocity:** Driving with an efficient average speed
  - **Wearfree braking:** Usage of retarder compared to total braking distance (only if the vehicle transmitted FMS/CAN data)
  - **Efficient usage of cruise control:** Use of the cruise control on motorways (only if the vehicle transmitted FMS/CAN data)
- **trip difficulty**
  - **Altitude level:** Requirements of the route profile by altitude
  - **Road types:** Requirements for the driver by the proportion of minor roads, major, roads and motorway
  - **Breaks of journey:** Difficulty of the tour by many breakpoints during shift. A shift is definedby the drives until the next shift idle time. The shift idle time is the required minimum idle time between 2 shifts. If the idle time between 2 working times is shorter than this limit, the drives will be added to the same shift.

Requirements

- supported hardware
- hardware with enabled driver authentification
- booked option for driver behaviour / driving analysis
- rate: Business

Configuration / Preferences

The following configurations can be made only for vehicles (detection devices) that have booked the corresponding option.

Configure limits for vehicle

To perform a driver behaviour / driving analysis, you have to define the required limits of the involved vehicles once.

Configure the following limits for a vehicle in the object settings under the section driverbehaviour:

- where deceleration (in m/s) is beeing captured negative
- where acceleration (in m/s) is beeing captured negative
- where the reached centrifugal force while driving curves is captured aggressive
- how long and which speed has to be reached to be captured as underspeed
- how long and which speed has to be reached to be captured as overspeed

YellowFox offers a default configuration for cars and trucks. These can be loaded in the upper part of the configuration dialog. By saving it, the configuration is sent to the vehicle (detection device).

Evaluation profiles

It is possible to set a evaluation profile for each vehicle (detection device) depending on its use case. The profile describes how the different evaluation criteria are weighted. YellowFox offers you a pre-selection of profiles for many vehicle types like trucks, cars, van or busses. To allocate a profile go to administration object settings for driver behaviour.

You can also define custom profiles. In this way your are able to set which criterium should be weighted in a specific way and set detailled limits for grade calculation.

Please notice that profiles can only be allocated from now on and are not applied on past data.

Output

The report support the following formats

- HTML
- PDF
- XLS