



[www.dtco.vdo.com](http://www.dtco.vdo.com)

# Trendsetting solutions for efficient fleet management

Modern telematics solutions for your success

# Tomorrow's technology today

## Ensure business success

With our fleet management and telematics products and services we are opening up the future. Because it is precisely in these areas that the potential of transport, logistics and fleet companies lies – and subsequently the opportunities for successful business.

As part of the Automotive Group of the Continental Group, we will help you with advanced telematics solutions to gain a competitive edge today and maintain it in the future.

This is why we offer a wide range of innovative and future-orientated solutions with VDO quality – from wireless data transfer to professional fleet management.

Our closely-meshed network of more than 9,400 experienced, specially-trained partner workshops is proof that your wishes and requirements are always our main priority. They will take care of the maintenance, calibration and repair of the devices installed in your vehicles – and provide expert consultancy services for our sophisticated telematics solutions.



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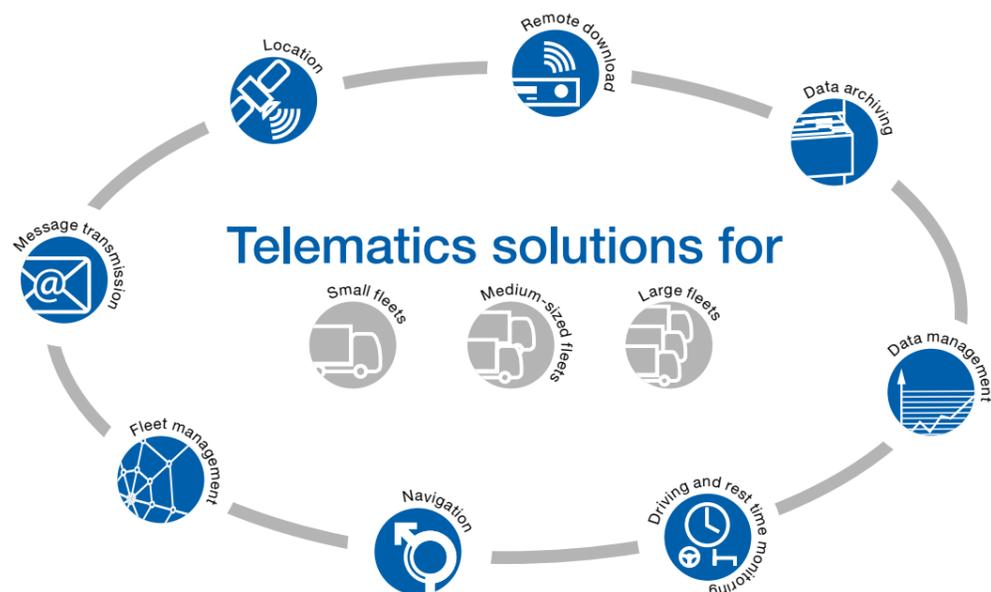
# Telematics – the key to long term success

Reducing costs, optimising business processes, improving personnel planning, meeting legal obligations – the market is forever setting new challenges for transport and logistics companies. Clever telematics solutions help to meet these challenges.

In a highly competitive market optimum planning is more critical than ever in determining the profitability of logistics and transport companies. Modern telematics solutions address precisely this and help to manage your fleet quickly and efficiently as well as opening up and exploiting potential for making savings.

As a market leader in tachograph business for many years, VDO understands these requirements and wishes of the market perfectly and also uses this expertise to develop pioneering telematics solutions. Perfectly adjusted, when linked to the digital tachograph they supply valuable information and analyses with which efficiency in the fleet can be greatly increased.

Investment in vehicle telematics pays for itself several times over: Not only can you increase the productivity of your fleet and save money but also achieve qualitative results that lead to more customer and driver satisfaction and meeting environmental targets. It pays off in the long term too and makes your fleet competitive in the long run.



# VDO – the perfect solution for every fleet

VDO offers its customers future-proof and tailor-made telematics solutions customised for various company-specific requirements.

The solutions range from simple remote download media for greatly simplifying work processes and flexible tools for archiving, displaying, checking and analysing data to exhaustive fleet management solutions

including real-time vehicle localisation and much more. The option to add additional functions to the solutions at any time guarantees the necessary flexibility and guards against obsolescence.



| Our solution   | Your requirement   |  |  |  |  |  |   |  |
|--|--|--|--|--|--|--|---|--|
|  | <br>Transfer of tachograph and driver card data by wireless | <br>Data archiving, display and analysis in accordance with legislation | <br>Display and analysis of tachograph and driver card data | <br>Monitoring of Drivers Hours Regulations | <br>Vehicle location and route tracking | <br>Analysis of all fleet data for optimising work processes, personnel planning etc. | <br>Exchange of data between drivers and fleet office managers | <br>Position location and determination of the best route to the point of arrival |
| DLD® Short Range (page 8)                                    | →  |  |  |  |  |  |   |  |
| DLD® Wide Range (page 8)                                     | →  |  |  |  |  |  |   |  |
| TIS-Web® (page 14)<br>+ DLD® Wide Range                      | →  |  |  |  |  |  |   |  |
| TIS Track&Trace (page 17)<br>+ TIS-Web®<br>+ DLD® Wide Range | →  |  |  |  |  |  |   |  |
| VDO DriveTime (page 18)<br>+ TIS-Web®<br>+ DLD® Wide Range   | →  |  |  |  |  |  |   |  |
| OmniExpress<br>+ FleetVisor™ (Seite 20)                      | →  |  |  |  |  |  |   |  |

# Reliable and straightforward – data transfer by wireless

Increase your efficiency and meet your legally prescribed archiving obligations quickly, conveniently and cheaply. The DLD® by VDO solves this issue in the best possible way.

Because DLD® is the efficient solution for transferring mass memory and driver card data wirelessly directly to a PC in the office

or to a download archive. Simple operation and the highest level of data security are thereby guaranteed.



## Advantages of wireless data transfer:

- The data is downloaded **automatically** at defined intervals. This ensures that the legal archiving periods are observed and fines avoided.
- **No company card** is required in the vehicle to download driver card and mass memory data. This can remain in the office throughout the whole procedure. Authentication is done wirelessly.
- The encrypted wireless data transfer offers more **security** for drivers who do not regularly go back to the fleet and who had to send the data by post before.
- With the DLD® **you save time** downloading data because the data is transferred from the DTCO® directly to the PC in the office or to a download archive (e.g. TIS-Web®).
- The downloaded files are **compatible** with TIS-Web®, TIS-Office® and many other DTCO® archiving solutions.
- With remote download the fleet manager has control of the whole process **centrally**.

## The DLD® is available in two versions:

- DLD® Short Range – for transferring data via wireless LAN on the fleet site
- DLD® Wide Range – for transferring data throughout Europe via GPRS (mobile wireless network)



## DLD® Short Range – fully automatic data transfer

Whether filling up at the company fuel pumps or parking a vehicle at the fleet site, with the DLD® Short Range the data can be read and transferred via WLAN from the digital tachograph mass memory and from the driver card in a fully automatic procedure.



With the DLD® Short Range the data is transferred to the office PC via a local wireless network (WLAN) if the vehicle is in a defined area of the fleet site. A reminder list specifies the dates on which the data is to be downloaded.

It does not cost anything to transfer the data because it goes via the company network.

### Advantages of the DLD® Short Range:

- You save **time and staff costs** with the automatic download.
- The company card remains in the office during the data download. This ensures **greater security**.
- You control the whole **download process completely** from the office.
- **It does not cost anything** to transfer data via WLAN.

## DLD® Wide Range – Europe-wide online

Data transfer at any time and from anywhere in Europe – with the DLD® Wide Range, digital tachograph and driver card data is transferred via GPRS (mobile wireless network). This makes downloading fully flexible and enables you to download the data in the evenings at motorway service areas, when refuelling and even when waiting in a traffic jam.



With the DLD® Wide Range the data is transferred via a mobile wireless network (GPRS) to a VDO server to which you have protected Internet access. Mass memory and driver card data can thus be downloaded and transferred at any time and anywhere in Europe, e.g. from a motorway service station, directly to the data archive.

A reminder list specifies the dates on which the data is to be downloaded. It is updated automatically at every connection between the DLD® Wide Range and the office PC.

### Advantages of the DLD® Wide Range:

- You **save time and staff costs** with the automatic download which can be carried out at any location with a connection to the mobile wireless network.
- The company card remains in the office during the data download. This ensures **greater security**.
- You control the whole **download process completely** from the office.
- With the DLD® Wide Range you can also transfer additional data (e.g. the vehicle position) over the air. This paves the **way for further telematics services**.

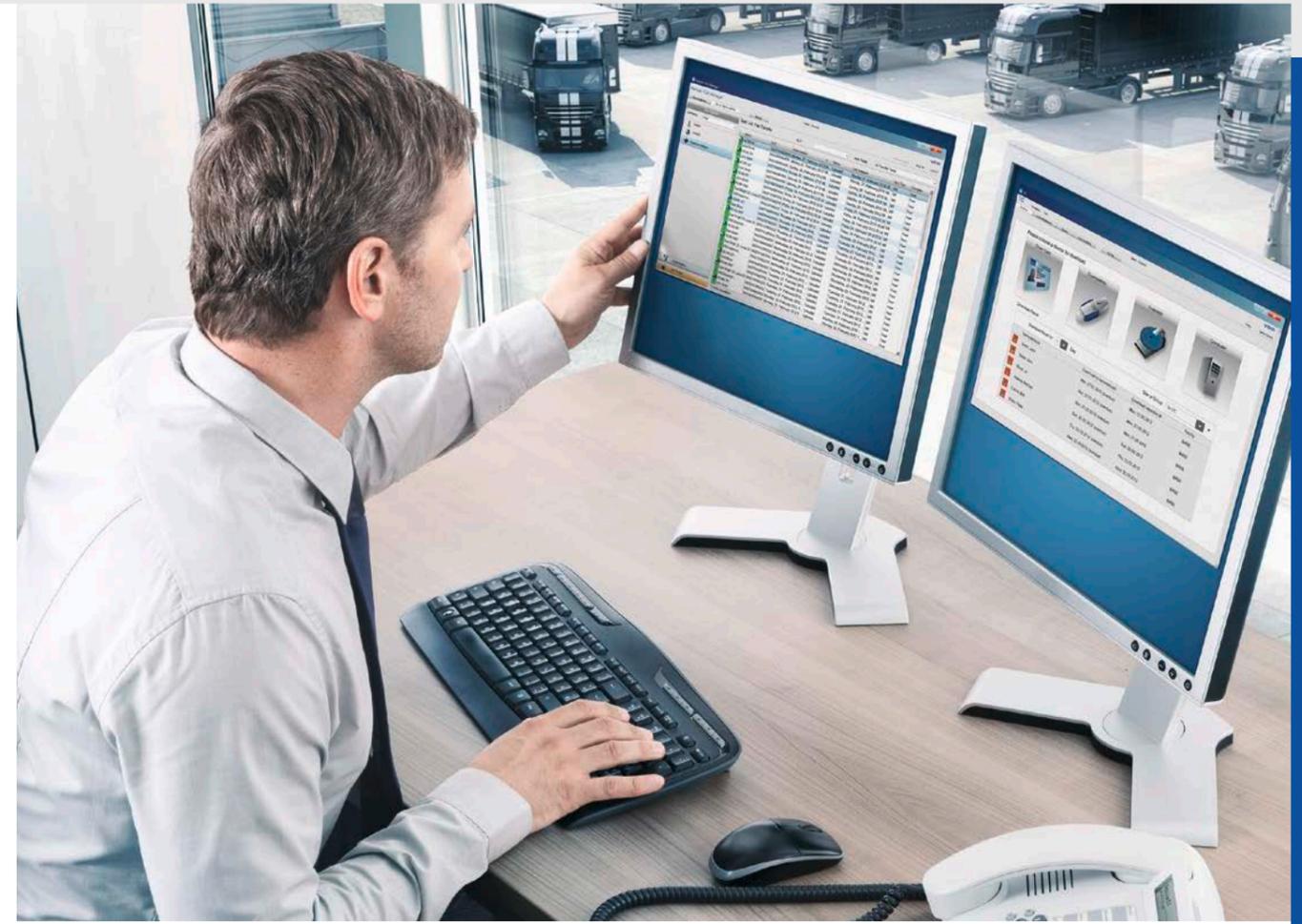


## The icing on the cake – online data management

With TIS-Web® and TIS Track&Trace VDO offers you a reasonably priced, web-based solution for archiving tachograph and driver card data in accordance with legislation. TIS-Web® and TIS Track&Trace are also effective tools for simple and precise data analysis and for optimising operating processes, fleet workloads, route planning and customer service.

## TIS-Web® – highly professional with a minimum of effort

You only need a computer with Internet access in order to archive tachograph and driver card data in compliance with legislation, display it directly, manage it efficiently and analyse it in a professional manner.



With TIS-Web® you benefit from all the advantages of an efficient data management solution and can rely on a professional electronic data processing infrastructure. In this way the downloaded mass memory and driver card data is stored in a data centre where it is password-protected and regularly backed up. Data is encrypted and transmitted via the Internet. Automatic software updating keeps the program at the cutting edge of technology.

A multi-level price model addresses your specific user profile. Fees depend on the number of drivers, users and on the range of functions used. This can be selected via the several different user levels and optionally expanded at any time.

TIS-Web® is thus suitable for any size of fleet, from a single driver up to large fleets. TIS-Web® is the perfect choice, even for fleets with several sites in Europe since the service is available in 25 languages.

### Advantages of TIS-Web®:

- The downloaded mass memory and driver card data is stored online and is password-protected and can be viewed **any time and anywhere**.
- With TIS-Web® you solve three problems with one tool: The data is archived **in accordance with legislation** and can also be **analysed and managed** professionally.
- You can see at a glance whether **downloads have been** performed properly and can easily check whether **driving and rest times** have been observed.
- The **vehicle workload** can easily be checked and **imminent vehicle events** (e. g. tyre changes) can be planned efficiently.
- A clear picture of **driver availability** helps you when **compiling work schedules**.
- Important information on fuel consumption helps you to **reduce costs**.
- Important data is collected for any periods in **clear reports**.
- Report results can easily be exported to **other programs** for further processing.
- TIS-Web® is **compatible with the DLD® Short and Wide Range**, with which you can easily transfer tachograph and driver data wirelessly.
- Automatic software updating keeps TIS-Web® **at the cutting edge of technology**.
- TIS-Web® is available in 25 languages and is thus **perfect for fleet with sites throughout Europe**.



## TIS Track&Trace – keeping tabs on vehicle movements

TIS Track&Trace is the efficient and reasonably-priced solution for fleet operators who want to maximise the productivity of their fleet and subsequently have to know where their vehicles currently are or which routes they have driven.

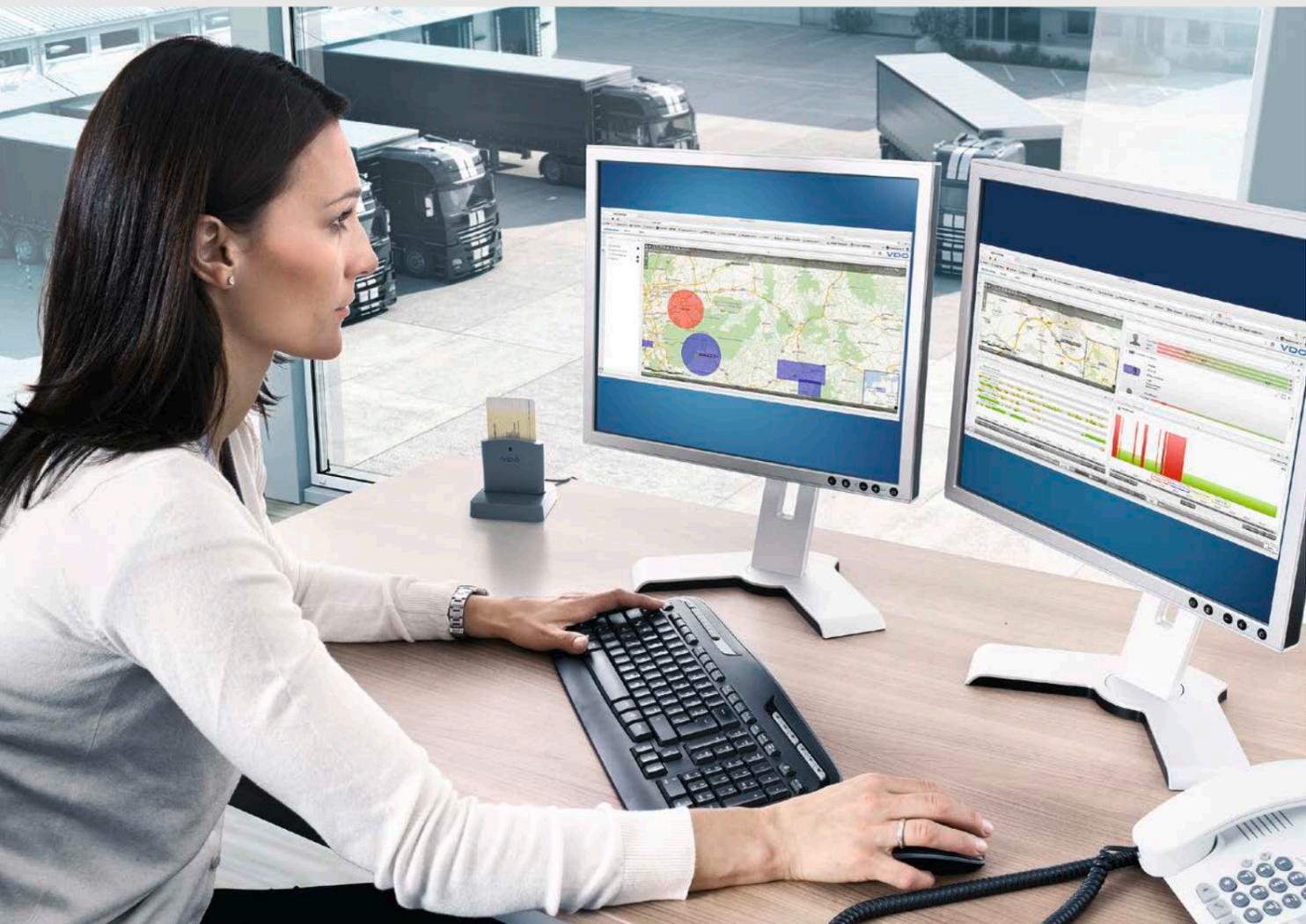


As an addition to TIS-Web® TIS Track&Trace is ideally suitable for smaller and medium-sized fleets that want to use all the advantages of vehicle location without having to invest in additional hardware and software. Because TIS-Web® users can easily sign up

to TIS Track&Trace as a web service at any time. The only prerequisite is that the vehicles you want to locate are equipped with our remote download solution, DLD® Wide Range (for more details see page 11).

### Advantages of TIS Track&Trace:

- Using the information on vehicle positions and routes additional loads can be accepted spontaneously and flexibly on current routes and **fleet utilisation can be considerably improved.**
- By analysing and comparing routes driven, future **route** planning can be optimised and **driver behaviour improved.**
- Accurate information on the location of consignments and expected delivery times are available at any time on request and **increase customer satisfaction.**
- TIS Track&Trace can be called up via a PC with Internet access and is also available at any time with an iPhone or iPad **when on the road.**



## VDO DriveTime – working times under control

VDO DriveTime is the real-time fleet management solution with which you can view relevant working time data, locations and vehicle movements in real time. You will have a constant overview of the data you need to optimise driving times and routes.



Together with the DLD® Wide Range (for more on this see page 11) you can automatically download VDO Drive Time tachograph data in accordance with legal regulations and at the same time use professional driver

and vehicle management functions. VDO DriveTime gives you, for instance, real-time information on the vehicle's location and a large number of driver and vehicle data reports.

### Advantages of VDO DriveTime:

- You can locate and track vehicles in real time and thus **improve your route planning**. This helps you to minimise empty trips and detours and reduce operating costs.
- The real-time display of a driver's working times and the automatic calculation of remaining driving times help you to **reduce infringements**.
- Convenient driver availability graphs enable you to **improve your use of personnel**.
- VDO DriveTime gives you clear reports on driver working times in accordance with EU regulations, providing an excellent **starting point for your payroll accounting**.
- A fuel consumption overview provides important information about driving behaviour and helps to **reduce consumption levels**.
- Defined driving area (geo-fencing) and vehicle tracking information help you to **check planned routes quickly**, for example, for security issues related to the transport of valuables.
- With the VDO DriveTime mobile application, you'll always know exactly where your drivers and vehicles are, **even if you're on the road yourself** – and you can display travelled routes on your iPhone, iPad and Android or Blackberry smartphone.



VDO DriveTime

# OmniExpress & FleetVisor™ – “all-inclusive” fleet management

With its wealth of functions, OmniExpress combined with FleetVisor™ is the exhaustive fleet management solution for the transport and logistics industry. It supplies all the relevant data from the vehicle and the digital tachograph and ensures efficient business processes and optimum personnel and resource planning.



OmniExpress is a vehicle-specific on-board computer that collects all the vehicle information relevant for successful fleet management and transfers this to a secure web portal via GPRS.

With the web-based FleetVisor™ software authorised staff can view and check the transferred information in the office in real time. Customised reports, diagrams, tables and filters all help to analyse the relevant data, which can be further processed using many popular back office systems.



### The advantages of OmniExpress and FleetVisor™:

- As they are connected directly to the digital tachograph the **data is downloaded** from the mass memory and the driver card completely automatically and without additional equipment – independent of time and location.
- Important information on fuel consumption helps you to **reduce costs**.
- Clear reports on speed, rpm, number of stops, number of times the driver braked heavily and much more including compiling a driver score card **increase the amount of time you can use** your vehicles and their service life and enable you **to plan maintenance work better**.
- Precise information on operative processes can be recorded and **thus** work processes **can be** optimised.
- Information on the vehicle's position and a clear picture of the route travelled **improve route planning** and **minimise empty trips** and detours.
- Real-time information on actual and remaining driving and rest times including warning message ensure that **infringements** of the working time directives are **avoided** and **personnel planning** can be optimised.
- Drivers can communicate with the office and vice-versa using standard pre-formulated messages and free text messages. This makes communication **much easier** and reduces **communication costs** to a **minimum**.

# Telematics solution in detail

|  | DLD®        |            | TIS-Web®        | TIS Track&Trace<br>(can only be used together with TIS-Web® and DLD® Wide Range) | VDO DriveTime<br>(can only be used together with DLD® Wide Range) | OmniExpress and FleetVisor™ |
|--|-------------|------------|-----------------|--|---|-----------------------------|
|  | Short Range | Wide Range |                 |  |   |                             |
| <b>Downloading data</b>                                  |             |            |                 |  |   |                             |
| Downloading mass memory data from the digital tachograph | •           | •          |                 |  |   | •                           |
| Downloading driver card data                             | •           | •          |                 |  |   | •                           |
| Downloading vehicle data from the FMS/CAN bus            |             |            |                 |  |   | •                           |
| <b>Transferring data to a computer</b>                   |             |            |                 |  |   |                             |
| Data transfer by wireless (WLAN)                         | •           |            |                 |  |   |                             |
| Data transfer via GPRS                                   |             | •          |                 |  |   | •                           |
| <b>Data archiving</b>                                    |             |            |                 |  |   |                             |
| Data archiving in accordance with legislation            | •           | •          | •               |  |   | •                           |
| <b>Visualisation and evaluation of data</b>              |             |            |                 |  |   |                             |
| Displaying download files                                |             |            | •               |  |   | •                           |
| Detecting gaps between downloads                         |             |            | •               |  |   | •                           |
| Displaying infringements                                 |             |            | •               |  |   | •                           |
| Displaying data in tabular and tachograph chart form     |             |            | •               |  |   | •                           |
| Displaying speed data                                    |             |            | •               | •  | •   | •                           |
| Displaying driver activities in real time                |             |            | ○               |  | •   | •                           |
| Displaying vehicle usage in real time                    |             |            | ○               | •  | •   | •                           |
| Driver planner (working and on-duty times)               |             |            | •               |  | •   | •                           |
| Working time analysis                                    |             |            |                 |  | •   | •                           |
| Monitoring driving and rest times in real time           |             |            | ○               |  | •   | •                           |
| Calculating remaining driving times in real time         |             |            | ○               |  | •   | •                           |
| Monitoring fuel consumption                              |             |            | • <sup>1)</sup> |  |   | •                           |
| Monitoring driver behaviour                              |             |            |                 |  | •   | •                           |
| Driver score card  |             |            | • <sup>2)</sup> |  |   | •                           |
| <b>Location and navigation</b>                           |             |            |                 |  |   |                             |
| Track&Trace  |             |            |                 | •  | •   | •                           |
| Geofencing   |             |            |                 |  | •   | •                           |
| Location reporting                                       |             |            |                 |  | •   | •                           |
| Navigation   |             |            |                 |  |   | •                           |
| <b>Fleet management</b>                                  |             |            |                 |  |   |                             |
| Checking trailer coupling                                |             |            |                 |  |   | •                           |
| Temperature control                                      |             |            |                 |  |   | •                           |
| Order management   |             |            |                 |  |   | •                           |
| 2-way text messages                                      |             |            |                 |  |   | •                           |

○ subsequent data analysis (no analysis in real time)  
<sup>1)</sup> if recorded by the digital tachograph  
<sup>2)</sup> from TIS-Web® 3.7



## On the safe side – with VDO

As an experienced partner, VDO will provide expert consultancy services and individual support to help you choose and implement the right telematics solution for your fleet.

### More expertise

With more than 9,400 VDO service partners in more than 30 countries you always have specialists available. Our experienced, trained service partners will advise you on all telematics issues and will take care of the maintenance, calibration and repair of your devices.

### More support

In order to prepare you in the best possible way for working with your telematics solution VDO and various partners have developed target-group specific training plans. The training sessions will help you learn how to use the tools and guarantee that you can draw the best possible benefits from your investment.



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