

VDO DLK Smart Download Key

EN

A download tool you can trust – for
easy and secure cloud archiving



VDO

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Legal notice

Described product

- VDO DLK Smart Download Key

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Original operating instructions

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Disclaimer

The DLK Smart Download Key was designed exclusively for downloading data from digital tachographs and tachograph cards and for archiving the downloaded data.

The producers shall not accept any liability for damages resulting from any non-compliant use, in particular, personal injuries, material damages or financial loss in the form of consequential damages arising directly from the non-compliant use of the DLK Smart Download Key.

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The information contained in this documentation merely consists of general descriptions and a compilation of performance features, which, under specific application conditions, may not always apply exactly as described, or which may change as a result of ongoing product development.

This information is only a technical description of the product. In particular, it does not constitute a guarantee of quality or durability.

The desired performance features only become binding once expressly agreed in the final contract.

Availability and technical specifications are subject to change.

General instructions



RISK OF EXPLOSION!

Danger of explosion

Please note that the following safety regulation must be adhered to when using the DLK Smart in vehicles used for the transport of hazardous goods and/or in explosive areas:

- During loading and unloading of hazardous goods, the cover of the front interface of the digital tachograph must be closed. This means that no connection to the digital tachograph may exist and no data downloading may take place.



CAUTION

Avoid damage to the DLK Smart

In order to prevent the DLK Smart from getting damaged, please note the following points:

- Do not use sharp-edged or pointed objects, e. g. ballpoint pens, on the touch screen.
- Insert only authorised cards into the card drawer.
Embossed and metallic cards may damage the card drawer of the integrated chip card reader.

Legal download obligation



IMPORTANT

Digital tachograph and driver card data must be regularly downloaded.

Please observe the regulations in force in your country for download intervals and for the data blocks which must be downloaded.

Archiving obligation



IMPORTANT

You must keep the downloaded files for the duration of the legally prescribed period.

Please observe the regulations in force in your country for archiving mass memory and driver card files.

Data transfer



CAUTION

Do not pull out the DLK Smart during a data transfer

The DLK Smart must never be pulled out of the front interface or removed from the computer during data transfer.

The loaded data and the configuration files could be corrupted.

- Always wait until the data transfer process has finished.

**IMPORTANT**

Do not use the USB interface of the DLK Smart while data is being downloaded from the digital tachograph or during the card download process. Otherwise, the data download process will be aborted.

**IMPORTANT**

Please make sure that the DLK Smart is not inserted while the vehicle is being driven. Otherwise, the view of the digital tachograph display could be restricted.

In addition, the DLK Smart and the front interface of the digital tachograph could be damaged in a collision.

Data protection

The Data Protection Act requires personal data to be protected from fraudulent use by third parties. Any infringement of the Data Protection Act will be prosecuted.

**IMPORTANT**

Please take the following safety measures to protect your personal data:

- Use a password to protect the download files stored on the DLK Smart from third-party access.
- Do not give your password to third parties.
- Change your password regularly.
- Keep your password in a safe place.

Disposal

**IMPORTANT**

Due to the integrated battery, legal regulations which go beyond the laws regarding the disposal of electronic devices, must be adhered to.

Disposal in household waste is prohibited.

- Please take the DLK Smart to a collection point for professional disposal or contact your service partner.

DLK Smart Download Key

The DLK Smart is part of the VDO product family which sets new standards in terms of data downloading and archiving. The DLK Smart allows you to download mass memory and driver card data and view it either directly on the display or in the "Keytools" browser application.

Scope of delivery

The scope of delivery includes:



1 VDO DLK Smart Download Key with software for configuring and archiving digital tachograph data

2 USB extension cable

3 Download leaflet

4 Hand strap

Product overview



- | | |
|--|--|
| 1 USB plug cover | 2 LED indicating the operating status |
| 3 Button for switching the DLK Smart on and off | 4 Display with touch function |
| 5 6-pin download plug | 6 6-pin download plug cover |
| 7 Chip card reader | 8 Card drawer for microSD or microSDHC card |
| 9 USB 2.0 plug (type A) | 10 Reset key |

Getting started with the DLK Smart

The DLK Smart allows you to

- download digital tachograph mass memory and driver card data; ➔ *Downloading mass memory and driver card* [▶ 14].
- download driver cards via the integrated chip card reader; ➔ *Downloading a driver card using the integrated chip card reader* [▶ 16].
- immediately find out exactly when data is due to be downloaded thanks to the download reminders on the display; ➔ *Menu overview* [▶ 19].
- use the browser application to keep an eye on when the next digital tachograph periodic inspection is due; ➔ *Carrying out downloads on schedule* [▶ 31].
- use the browser application to see at a glance when a driver card is due to expire and a new card should be requested; ➔ *Carrying out downloads on schedule* [▶ 31].
- use the browser application to check whether or not the data has been downloaded correctly; ➔ *Checking the signature of downloaded files* [▶ 41].
- process and manage the download files in accordance with the pertinent legal regulations; ➔ *Viewing the downloaded data* [▶ 28].

Synchronising the clock and downloading data for the first time

The DLK Smart has an integrated real-time clock which is based on UTC time. The first time the device is connected to a digital tachograph the clock is synchronised automatically – provided that a company card, control card or workshop card is inserted in the digital tachograph.

When the DLK Smart is connected to a computer, the time is also synchronized when starting the browser application.

1

Insert your company card, control card or workshop card into the digital tachograph.

2

Connect the DLK Smart to the digital tachograph; ➔ *Downloading mass memory and driver card* [▶ 14]

The mass memory and driver card data is downloaded.

The time is synchronised.

You can view the downloaded data either directly in the display or in the browser application "VDO Keytools"; ➔ *Display – the first data check* [▶ 17] und ➔ *Viewing the downloaded data* [▶ 28].

Switching on the DLK Smart

3

Switch on the DLK Smart by

- pressing the button; ➔ *Product overview* [▶ 9].
- inserting a card into the chip card reader; ➔ *Downloading a driver card using the integrated chip card reader* [▶ 16].
- connecting the DLK Smart to a computer via the USB cable; ➔ *Connecting to the computer* [▶ 23].
- connecting the DLK Smart to the front interface of a digital tachograph; ➔ *Downloading mass memory and driver card* [▶ 14].

You cannot operate the display during the data download but you can touch it to rotate it by 180°.

The DLK Smart can be operated either by means of an external power supply (vehicle) or the integrated battery.

Before you use the DLK Smart for the first time, please charge the battery. The battery is fully charged after approx. 2 hours.

If the battery charge level is well below the limit of 25%, the LED (colour: green/red) will flash every 30 minutes for approx. 3 seconds, even if the DLK Smart is not being used.

The battery cannot be charged while data is being downloaded.

Switching off the DLK Smart

4

Switch off the DLK Smart by pressing the button; ➔ *Scope of delivery* [▶ 8].



IMPORTANT

To save battery power, the DLK Smart switches itself off automatically after approximately one minute.

Charging the battery

Battery power is needed for

- the real-time clock,
- the integrated chip card reader and
- the display.

Each time the DLK Smart is plugged into the computer, its battery is automatically charged. During charging, the LED on the DLK Smart flashes (colour: orange).

If the charge level is low, however, use of the display will be limited or even impossible.



5

If possible, leave the DLK Smart plugged into the computer for a while after you have finished working with it so that the integrated battery can charge, e.g. for the next card download.

**IMPORTANT**

If you connect the DLK Smart via a USB hub, make sure that the hub has its own power supply. Otherwise, the DLK Smart's battery can only be charged with minimal charging current.

The battery can also be charged with a commercial USB charger.

Creating a backup copy on the microSD card

If a microSD card is inserted, a backup copy of the data is stored on it after the data download has finished.

**6**

If required, insert a microSD card into the card drawer provided for this purpose. The DLK Smart's display points upwards; the microSD card's contacts point upwards; the angled corner is on the left.

**IMPORTANT**

You can use either a microSD or a microSDHC card. The cards are not included in the package.

In case of a microSD card, please note that this must be FAT32-formatted and the memory capacity may not exceed 32 GB.

In these operating instructions, 'microSD card' also means a 'microSDHC card'.

Data download



The DLK Smart allows you to download the following data:

- the complete contents of the mass memory (data from at least 365 days),
- mass memory data covering a specified period and including specific data blocks,
- the contents of a driver card inserted in the digital tachograph (driver data from at least 28 days),
- the contents of a driver card inserted in the chip card reader (driver data from at least 28 days).



IMPORTANT

- Before downloading data from a digital tachograph, you must observe the general notes ➔ *General instructions* [▶ 6].
- Downloading data from digital tachographs is only possible if a company card, control card or workshop card is inserted in card drawer 2, for instance.
- The exception to this rule is the driver card download: You can download driver card data from the DTCO 1381 Rel. 1.4 or a later release without inserting one of these cards.



IMPORTANT

Please remember that the provisions for identifying download files in France and Spain differ from those in other European countries.

Check the DLK Smart's configuration before using the DLK Smart.



IMPORTANT

By touching any area of the display, you can rotate it by 180° during a download.

Downloading mass memory and driver card

- 1 Insert your company card, control card or workshop card into the digital tachograph.
- 2 Open the cover of the digital tachograph's front interface.
- 3 Remove the cover from the DLK Smart's download plug.



- 4 Insert the DLK Smart's download plug into the front interface of the digital tachograph.
 - ⇒ As soon as the DLK Smart is inserted, the DLK Smart's flashes green.
 - ⇒ A symbol gradually filling green shows the download process. When the download has finished, the LED on the DLK Smart remains green and beeps indicate that the download was successful.



IMPORTANT

If a driver card is inserted in the digital tachograph, its content – along with the digital tachograph's mass memory – are downloaded automatically, provided the DLK Smart is configured accordingly.

If the download was unsuccessful, the LED on the DLK Smart flashes red and intermittent beeps can be heard.

- In this case, check whether the DLK Smart has enough memory available; ➔ *Menu overview* [► 19].
- Try to repeat the download.
If the download fails a second time, use the browser application to collect the support files and contact your service partner; ➔ *Getting support* [► 37].

- 5 When the download is complete, remove the DLK Smart from the front interface.

- 6 Replace the cover, close the front interface of the digital tachograph and remove your company card, control card or workshop card from the digital tachograph.

You can now view the downloaded data directly on the display or in the browser application "VDO Keytools"; ➔ *Display – the first data check* [► 17] and ➔ *Viewing the downloaded data* [► 28].

Downloading a driver card with the DTCO 1381

You can use the DTCO 1381, Rel. 1.4 and later releases, to download driver card data without inserting a company card, control card or workshop card.

If the driver card has not yet been inserted into the DTCO, please insert it now.

1

2

Open the cover of the digital tachograph's front interface.

3

Remove the cover from the DLK Smart's download plug.

4

Insert the DLK Smart's download plug into the front interface of the DTCO.

⇒ As soon as the DLK Smart is inserted, the DLK Smart's flashes green.

⇒ A symbol gradually filling green shows the download process. When the download has finished, the LED on the DLK Smart remains green and beeps indicate that the download was successful.



If the download was unsuccessful, the LED on the DLK Smart flashes red and intermittent beeps can be heard.

- In this case, check whether the DLK Smart has enough memory available; ➔ *Menu overview* [► 19].
- Try to repeat the download.
If the download fails a second time, use the browser application to collect the support files and contact your service partner; ➔ *Getting support* [► 37].

5

When the download is complete, remove the DLK Smart from the front interface.

6

Replace the cover and close the DTCO's front interface.

You can now view the downloaded data directly on the display or in the browser application "VDO Keytools"; ➔ *Display – the first data check* [► 17] and ➔ *Viewing the downloaded data* [► 28].

Downloading a driver card using the integrated chip card reader

Using the integrated chip card reader, you can transfer the data of a driver card directly to the DLK Smart.



IMPORTANT

- Before the first card download, connect the DLK Smart with a digital tachograph or computer to synchronise the time; ➔ *Synchronising the clock and downloading data for the first time* [▶ 10].
- Please remember to charge the battery for the card download.



IMPORTANT

You can also use the integrated chip card reader to download data from company cards, control cards and workshop cards.

1

Insert the driver card into the integrated chip card reader. The chip points upwards and the arrow in the direction of the chip card reader.

⇒ Card download starts automatically.



2

A symbol gradually filling green shows the download process.

⇒ When the download has finished, the LED on the DLK Smart remains green and beeps indicate that the download was successful.

If the download was unsuccessful, the LED on the DLK Smart flashes red and intermittent beeps can be heard.

- In this case, check whether the DLK Smart has enough memory available; ➔ *Menu overview* [▶ 19].
- Try to repeat the download.
If the download fails a second time, use the browser application to collect the support files and contact your service partner; ➔ *Getting support* [▶ 37].

3

When data transfer has finished, remove the driver card.

You can now view the downloaded data directly on the display or in the browser application "VDO Keytools"; ➔ *Display – the first data check* [▶ 17] and ➔ *Viewing the downloaded data* [▶ 28].

Display – the first data check

The DLK Smart display allows you to view the downloaded data immediately on site.

Display elements



1 Navigation bar

The navigation bar shows you the currently selected menu level. Touching this bar will return you to the higher level menu at any time.

If you want to return to the main menu, keep your finger on the bar until the main menu is displayed.

2 Time display

The time is displayed based on UTC time as default. A dot below at the bottom under the time may indicate that the time was changed to local time.

3 Status displays

The icons on the status bar show you at a glance

- how much memory has been used.
- the battery charge status.
- whether a microSD card is inserted.
- whether there is an active Bluetooth connection.

Touching the status displays allows you to open a menu with additional functions:

- activating password protection or entering a password.
- activating the Bluetooth function and displaying coupled devices.
- switching the time between UTC time and local time.
- rotating the DLK Smart's display.

4 Display area

This area is reserved for displaying menus and data. To navigate, touch the menu.

Display navigation

Navigate on the display by touching the icons.



Avoid damage to theDLK Smart

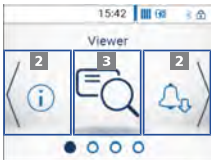
- Do not use sharp-edged or pointed objects, e. g. ballpoint pens, on the touch screen.

1

Switch the DLK Smart on by pressing the button. The display area shows the main menu.



The texts shown on the display are always displayed in the dialogue language that you selected last. Set these via the **Settings > Language** menu. The newly selected language is shown immediately.

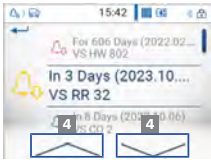


2

Press < or > to select a different menu.

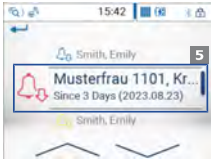
3

Confirm your selection by touching the menu image in the centre.



4

Press ^ or v to select the entry from a list



5

Confirm the selection by touching the entry.



6

Press < or > to scroll.

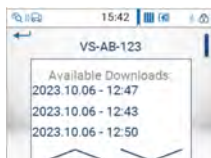
7

Press the navigation bar in the top left corner to return to the higher level menu.

Menu overview

You can select one of the following menus:

- Viewer
- Download-Reminder
- Settings
- Info
- Status menu



Menu "Viewer"



The **Viewer** menu shows you information about the mass memory and driver card files stored on the DLK Smart.

You can check

- when the DLK Smart was last used to download data from a specific vehicle or driver card
- when the next download of a specific vehicle or driver is due.



Menu "Download-Reminder"



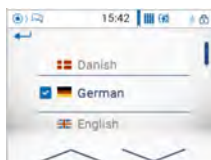
The **Download-Reminder** menu shows you a list of all the vehicles or drivers with upcoming or overdue downloads.



IMPORTANT

Use the download reminder function to carry out mass memory and driver card data downloads on schedule.

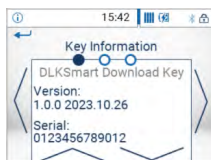
Please bear in mind that downloads must take place regularly using this DLK Smart ; otherwise, the download reminders will be inaccurate.



Menu "Settings"



The **Settings** menu allows you to choose the display language. The new language is set immediately and displayed each time you switch on the DLK Smart.



Menu "Info"



The **Info** menu provides the following information:

- Firmware version
- Serial
- Free memory capacity on the DOWNLOADKEY partition that is available for further downloads

On the second page, the IP address of the DLK Smart, the core temperature and the battery's charge status are also displayed.

Status menu

Touch the right part of the status bar to open the status menu.



Here, you can view the following information and touch the display to carry out settings:

- activating password protection or entering a password.
- exact charge status of the battery in percent.
- activating the Bluetooth function and displaying coupled devices.
- switching the time between UTC time and local time.
- rotating the display of the DLK Smart.



IMPORTANT

By touching any area of the display, you can rotate it by 180° during a download.

The icons and what they mean

Data download



Mass memory data is being downloaded.



Driver card data is being downloaded.



Company card data is being downloaded.



Control card data is being downloaded.



Workshop card data is being downloaded.



IMPORTANT

In case of company cards, control cards and workshop cards, downloading can only be carried out with the integrated chip card reader; ➔ *Downloading a driver card using the integrated chip card reader* [▶ 16].

Memory usage		0% – 25% of the memory is full.
		25% – 75% of the memory is full.
		75% – 99% of the memory is full.
		100 % of the memory is full. No further download can be carried out.
Charge status of the battery		Battery charge between 75% and 100%
		Battery charge between 50% and 75%
		Battery charge between 25% and 50%
		Battery charge between 0% and 25%
Display for the inserted microSD card		MicroSD card is inserted. Data can be written onto and read from the card (colour: green).
		MicroSD card is inserted. Data cannot be read from the micro SD card or the card's memory is full (colour: red).
Menus		Menu Viewer : Information about all the download files stored on the DLK Smart.
		Menu Download-Reminder : List of upcoming vehicle and driver card downloads sorted by due date.
		Menu Settings : Settings for the download configuration and display language.
		Menu Info : Display of the DLK Smart version, the serial number, the software version and the free memory capacity.
Sub-menus (type of the download files)		vehicle
		Driver
		Company
		Controller
		Workshop / inspection centre
Further sub-menus		Dialogue language selection
Information about the selected vehicle		The next mass memory download for the selected vehicle is due in 8 days at the earliest.
		The next download is due on the current day or within the next 8 days.
		The mass memory download is overdue.

Information about the selected driver

-  The next driver card download for the selected driver is due in 8 days at the earliest.
-  The next download is due on the current day or within the next 8 days.
-  The driver card download is overdue.

**IMPORTANT**

The periods specified for the reminder functions correspond to the default factory values.

The **Settings** > Register **Options** menu allows you to specify reminder periods; ➔ *Options* [▶ 34].

Please bear in mind that downloads must take place regularly using this DLK Smart; otherwise, the download reminders will be inaccurate

Information about the selected company card:**Activities carried out**

-  Data memory download
-  Driver card download
-  Company 'lock-in' to the digital tachograph by inserting the company card; this procedure is only carried out if the company is not yet 'locked in'.
-  Company 'lock-out' from the digital tachograph when removing the company card

Information about the selected control card:**Activities carried out**

-  Data memory download
-  Driver card download
-  Printout from the digital tachograph
-  Data viewed in the display of the digital tachograph

Information about the selected workshop card: Programmed parameters

- w Characteristic coefficient (imp/km) programmed into the digital tachograph
- k Correction value programmed into the digital tachograph
- l Tyre circumference programmed into the digital tachograph
-  Tyre size programmed into the digital tachograph

Connecting to the computer



Requirements

- The "Keytools" browser application can only be started from the DLK Smart.
- 2 drive letters are available; 3 if a microSD card is used.
- Optional: Internet access for the automatic update (→ *Carrying out a software update* [40]) or direct access to the login page of VDO Fleet exists; → *Processing data* [29].
- You can also use the DLK Smart without an internet connection. In such a case, however, you should connect the DLK Smart to an internet-enabled computer from time to time, e.g. at your service partner, to install current updates.

1

Connect the USB cable (included in the product package) to a USB port on your computer.

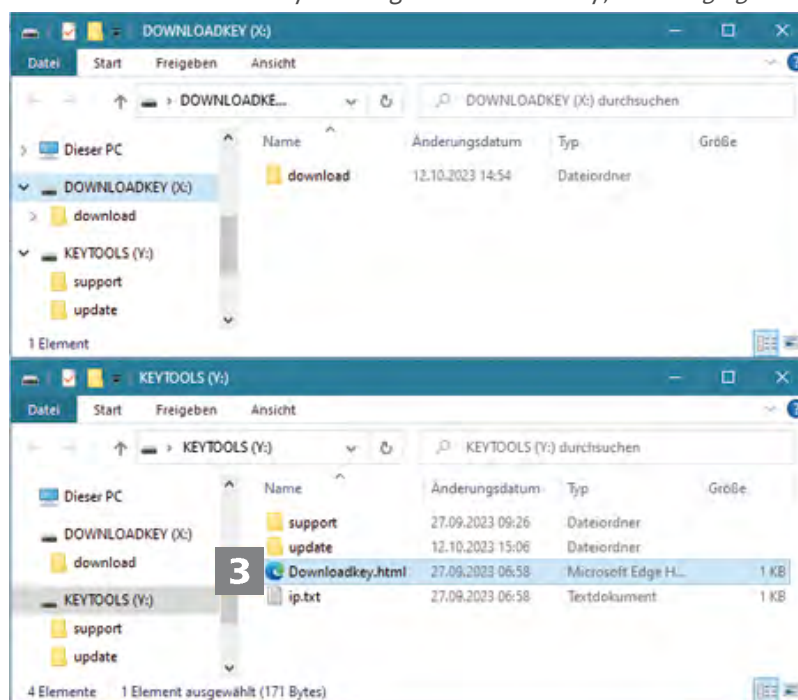


IMPORTANT

If you use a USB hub to connect the DLK Smart, make sure that the hub has its own power supply. Otherwise, the DLK Smart's battery can only be charged with a minimal charging current; → *Switching on the DLK Smart* [10].

2

Connect the DLK Smart to the computer via the USB cable or a USB hub. The LED on the DLK Smart flashes for approx. one second. The DLK Smart's battery is charged automatically; → *Charging the battery* [11].



3

3

Windows Explorer opens and displays the contents of the KEYTOOLS, DOWNLOADKEY and microSD card drives (if available).



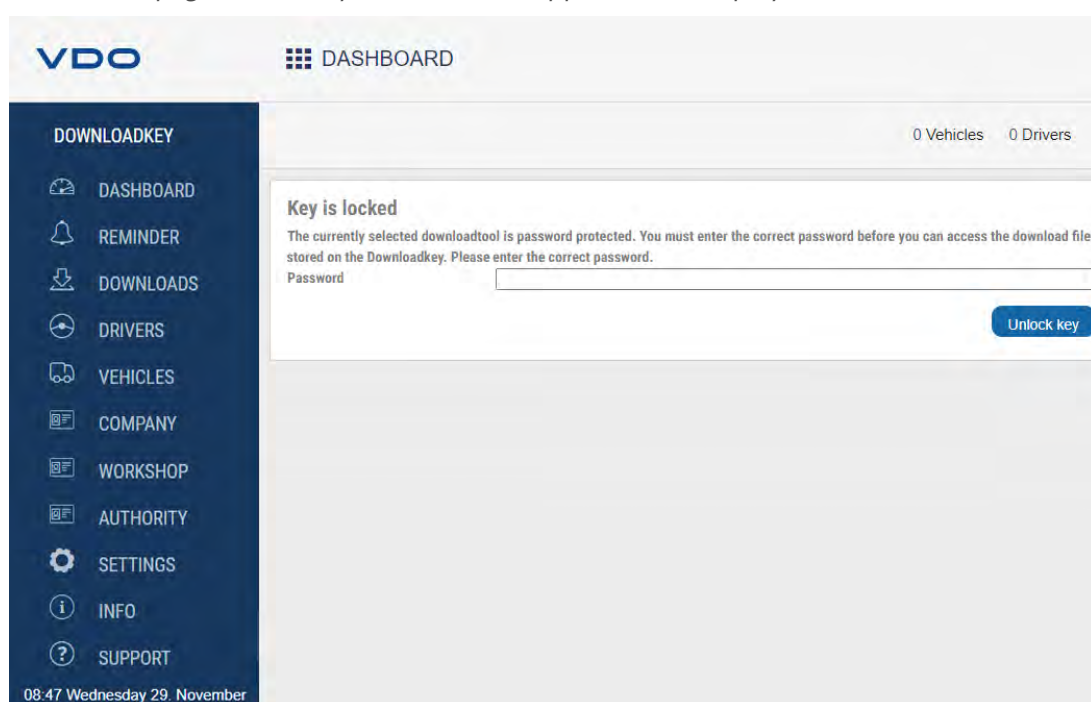
IMPORTANT

If not all Windows Explorer windows are opened, assign new drive letters to the DLK Smart using Disk Management.

Initially, only one Windows Explorer window is opened if the DLK Smart is password-protected.

Access to the DOWNLOADKEY drive and the data stored on the microSD card (if inserted) will be blocked until the password has been entered.

- Start the browser application with a double-click on "Downloadkey.html".
The start page of the "Keytools" browser application is displayed.



When you start the browser application, two additional processes are initiated:

- Version check
If the version used differs from the manufacturer's current version, a note on the dashboard displays the available new version. To carry out an update, click on **[Install update]**.
- Password protection check
If you have saved a password, you must enter it before gaining access to the download data; ➔ *Password protection* [35].

You can now work with the browser application and view or further process data, for example; ➔ *Getting support* [37].

Removing the DLK Smart



IMPORTANT

Never remove the DLK Smart from the computer during data transfer. This could corrupt the data and cause the computer to crash.

Always wait until the transfer process has finished – the LED light then remains green.

4

Exit the browser application by clicking on  in the top right corner of the browser window.



IMPORTANT

As the memory is distributed over two drives (three drives if you're using a microSD™ card), you cannot remove the DLK Smart via the **Safely remove Hardware and eject Media**.



5

Check that the data transfer to and from the DLK Smart is complete:

- ⇒ The LED light remains green.
- ⇒ If the LED flashes orange, leave the DLK Smart – plugged into the computer for some time (if possible) so that the integrated battery can charge for the next card download or the display of the next download reminder.

6

Remove the DLK Smart from the USB cable or the USB hub port and replace the cover.

7

Disconnect the USB cable from the computer's USB port (if necessary).

- ⇒ Store the cable without stretching or kinking it.

Browser application "Keytools"

The browser application "Keytools" of your DLK Smart allows you to

- view the general data contained in every download file.
- archive or delete the download files.
- display the current download reminder list.
- configure the download.
- perform any support tasks via the software.

Please remember: The browser application is started solely from the DLK Smart.

The screenshot shows the VDO Keytools web application. The interface includes a navigation menu on the left (1), a top header with the VDO logo and 'DRIVERS' (5), a central content area with a 'Files' tab (3), and a bottom action bar (4). The navigation menu lists various functions: DASHBOARD, REMINDER, DOWNLOADS, DRIVERS, VEHICLES, COMPANY, WORKSHOP, AUTHORITY, SETTINGS, INFO, and SUPPORT. The central area displays a list of files with columns for Drivers, Download Date, VDO Fleet Upload, and Signature. The bottom bar contains buttons for 'Delete File' and 'Check Signature'.

1 Navigation area

The navigation area is used to open these menus

- **dashboard,**
- **reminder,**
- **Downloads,**
- **drivers,**
- **vehicles,**
- **company,**
- **workshop,**
- **authority,**
- **settings,**

- **Info** and
- **Support**.
- The name of each selected menu is displayed in the browser application's head section.

2

Selection area

Provided you have selected one of these menus **drivers, vehicles, company, workshop** or **authority**, this area allows you to

- search for names or vehicle registration numbers, for example.
- after selecting an entry, view the corresponding download data and display additional details.
- Further information is included in ➔ *Viewing the downloaded data* [► 28].

3

Display and processing area

This area is reserved for displaying and processing data.

4

Function pane

The buttons in the function area allow you to further process the data; ➔ *Processing data* [► 29].

The display of the buttons depends on whether VDO fleet access data has been stored or not.

5

Header line

The header line allows you to fold the navigation area in and out and displays the name of the currently selected menu.

Viewing the downloaded data

The screenshot displays the VDO Keytools web application. On the left is a dark blue sidebar with a 'VDO' logo at the top and a list of menu items: DOWNLOADKEY, DASHBOARD, REMINDER, DOWNLOADS, DRIVERS (highlighted), VEHICLES, COMPANY, WORKSHOP, AUTHORITY, SETTINGS, INFO, and SUPPORT. Below the menu is a timestamp: '09:59 Wednesday 29. November'. The main content area is titled 'DRIVERS' and shows a list of drivers under the heading 'Kristina 1101 Musterfrau 1101'. The list includes names like Emily Smith, Kristina 1101 Musterfrau 1101, and Krista 6 Musterfrau 6. On the right, the 'Overview' sub-tab is active, showing three sections: 'Card Identification', 'Driver Identification', and 'License Information', each with a table of data.

Card Identification	
Issuing Country	A
Issuing Authority	Continental (en)
Card Number	1200000001101000
Issue Date	31/03/2021
Card Valid From	31/03/2021
Card Valid Till	01/06/2031
Generation	EU_GEN2v1

Driver Identification	
Owner Name	Kristina 1101 Musterfrau 1101
Date of Birth	18/01/2067
Mother Tongue	en

License Information	
Issuing Authority	Continental (en)
Issuing Country	A
License Number	6000000001101

The menus **drivers**, **vehicles**, **company**, **workshop** and **authority** provide you with a first insight **overview** into the downloaded data of the digital tachographs and tachograph cards in the tab.

- Mass memory data
 - Information identifying the vehicle
 - Information about the download period
 - Information about the previous download
 - Further information about data downloading
 - Information about company locks
 - Information about control activities
- Driver card data
 - Information identifying the card
 - Information identifying the driver
 - Driving licence data
 - Information about the last card download
- Company card data >
 - Information about the activities carried out
- Control card data >
 - Information about the activities carried out

- Workshop card data
 - Information identifying the card
 - Information about the workshop

In the function area, these menus also provide you with buttons for archiving, checking and deleting download files.

Selecting data

The screenshot displays the VDO DRIVERS application interface. On the left, a sidebar lists navigation options: DASHBOARD, REMINDER, DOWNLOADS, DRIVERS, VEHICLES, COMPANY, WORKSHOP, AUTHORITY, SETTINGS, INFO, and SUPPORT. The main content area shows a list of drivers under the heading 'DRIVERS'. One driver, 'Kristina 1101 Musterfrau 1101', is selected. Below this, a table titled 'Files 43' lists download files with columns for Drivers, Download Date, VDO Fleet Upload, and Signature. A context menu is open over the table, showing options: Archive/Export, Upload to VDO Fleet, Exclude file from VDO Fleet, Exclude Vehicle or Driver from VDO Fleet, and Delete File. The 'Archive/Export' option is highlighted with a mouse cursor.

- 1 In the selection area, click on and select a driver, company, control or workshop card or a vehicle.
⇒ The related download files are listed in the display and processing area.
- 2 Select the files that you want to process further from the list.
- * Specify how you want to process the data further by clicking on a button in the function area.

Processing data

1 Archive/Export function

Click on **Archive/Export** in the function area to save the files selected in the list on your computer.



IMPORTANT

Archiving does not delete the files from the DLK Smart.

2**Upload to VDO Fleet** function

Click on **Upload to VDO Fleet** in the function area if you want to import the selected files to VDO Fleet.

**IMPORTANT**

The access data of your VDO Fleet access are stored in the **settings** > Register **Options**;
→ *Options* [▶ 34] menu.

3Functions **Exclude file from VDO Fleet** and **Exclude Vehicle or Driver from VDO Fleet**

Click on **Exclude file from VDO Fleet** or **Exclude Vehicle or Driver from VDO Fleet** in the function area to exclude certain data from the upload to VDO Fleet, e.g. if the DLK Smart contains files which do not belong to the company of the stored VDO Fleet access.

4Function **Delete File**

Click on **Delete File** in the function area to remove the selected files from the DLK Smart or from the archive folder. Confirm the query with **[Yes]** to delete the files.

**CAUTION**

If you delete a download file that has not yet been archived or copied, this action cannot be undone.

If you are not quite sure whether or not you will need the file again, you should copy or move it.

Also observe the archiving obligation note; → *Archiving obligation* [▶ 6].

5Function **Check Signature**

Click on **Check Signature** in the function area to check the signature of the selected files; → *Checking the signature of downloaded files* [▶ 41].

Importing additional download files

VDO **DOWNLOADS**

OVERVIEW DOWNLOADS REMAINING FILES EXCLUSIONS UPLOAD ERRORS

Download Summary

Driver Card	69
Vehicle Unit	17
Workshop Card	3
Authority Card	1

Import Files

Please drop Download files for import

Start Upload

REMAINING FILES VDO FLEET

Driver Card	69
Vehicle Unit	17
Workshop Card	3

Start Upload

Card Download

Please Insert Card to start card download

13:51 Friday 20 October

In the **DOWNLOADS** menu

- the **OVERVIEW** tab allows you to import external files onto the DLK Smart and therefore to VDO Fleet and to download additional tachograph cards.
- the **DOWNLOADS** tab allows you an overview of all download files stored on the DLK Smart.
- the **REMAINING FILES** tab allows you an overview of all download files saved on the DLK Smart but not yet uploaded to VDO Fleet.
- the **EXCLUSIONS** tab allows you an overview of which data was excluded from the upload to VDO Fleet.
- the **UPLOAD ERRORS** tab allows you an overview of which errors occurred when uploading data to VDO Fleet, e.g. if not all requested data blocks were downloaded during the mass memory download.

Carrying out downloads on schedule

The screenshot shows the VDO REMINDER menu. On the left is a dark blue sidebar with icons and labels for various functions: DOWNLOADKEY, DASHBOARD, REMINDER, DOWNLOADS, DRIVERS, VEHICLES, COMPANY, WORKSHOP, AUTHORITY, SETTINGS, INFO, and SUPPORT. The main area is titled 'REMINDER' and displays a 'Downloads' section with 14 items. Below this are sections for 'Recalibrations' (8) and 'Card Renewal' (7).

Name	Due Date	Days Until Due Date	Type
Michael Anton Hantmann	20/10/2023	2	Carddownload
Kristina 1101 Musterfrau 1101	19/10/2023	2	Carddownload
Martin Joachim Wagner	19/10/2023	1	Carddownload
Roland Rapp	16/10/2023 (OverDue)	-1	Carddownload
GARY DUNCAN	28/08/2023 (OverDue)	-50	Carddownload

At the bottom of the table, it says 'Items per page: 5' and '1 - 5 of 14'.

The **reminder** menu gives you an overview of

- upcoming mass memory and driver card downloads.
- upcoming periodic inspections of your digital tachographs.
- driver card validity dates.

*

Requirement:

The downloads are carried out regularly via the same DLK Smart. Otherwise, the download reminder dates will not be calculated and displayed correctly.

1

The drop-down menu **Downloads** includes all the drivers and vehicles for which a renewed download will be due shortly.

2

The drop-down menu **Recalibrations** displays for which vehicles are periodic inspection is due.

The drop-down menu **Card Renewal** tells you which driver cards will soon expire and should be renewed in good time.

⇒ The **Due Date** column displays the exact date.

The periods specified for the reminder functions correspond to the default factory values.

You can specify the reminder periods in the **settings > Register Options** menu; → *Reminder periods [► 35]*

Please note that

- downloading must take place regularly using this DLK Smart; otherwise, the download reminders will be inaccurate.
- the regulations in force in your country must be adhered to.

**IMPORTANT**

The follow-on card to a driver card must be requested in good time before it expires – at least 14 days before expiry. Otherwise, a new driver card number will be assigned to the driver.

Configuring the DLK Smart and the data download

The **settings** menu allows you to

- specify the settings for downloading data from the digital tachograph.
- specify the user interface language.
- change the file name format.

- specify a password to protect the data stored on the DLK Smart from third-party access.
- set reminder periods for downloading, calibration and applying for a new driver card.

Download configuration

Download ConfigurationOptionsPassword Protection

Data blocks

☒ Mass memory Download

☐ Data Overview

☒ Activities

Download Timeframe

☐ Time since last download

☒ The last 90 days

☐ Download time line fromto

07/02/2106

☐ All activities

☒ Events and Faults

☒ Detailed Speed

☒ Technical data

☒ Driver Card

☒ Special Data

Cancel

Save

The **settings** > Register **Download Configuration** menu allows you to specify the data you want to download from the digital tachograph.

IMPORTANT

When delivered, the DLK Smart is configured to download all legally required data since the last download.

1

To change the download settings, switch to the **settings** > Register **Download Configuration** menu.

2

Specify the data to be downloaded in the future.
⇒ All data with a check mark will be included when downloading.

IMPORTANT

Please observe the regulations in force in your country for archiving mass memory and driver card files (M and C files).

For the Activities and Special Data blocks, you can limit the amount of data and thus the duration of the download by entering a download period or clearing the Speed Data check box, for instance.

When using VDO Fleet, please make sure that the download settings of the DLK Smart match those of VDO Fleet.

3

Use the option fields to set the period for which data should be downloaded:

- Time since last download

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- Last x days
- Download period from – to
- All activities

**IMPORTANT**

If you set a specific data range for the data download, that range will apply for all future downloads using the DLK Smart.

When the download is complete, please remember to change the settings for the next downloads.

4

Click on **[Save]** to apply the changes.

Options

The **settings** > Register **Options** menu allows you to specify, for instance

- general settings such as the user interface language.
- the target folder for archiving download files.
- reminder periods (downloads, periodic inspections and driver card expiry dates).

1

Switch to the **settings** > Register **Options** menu to change the configuration of the DLK Smart.

2

Common settings

Click on

- the selection list **Language** to change the user interface language. Language changes will not take effect until you restart the browser application.
- the selection list **Schema File** to change the files' country-specific ID; ➔ *File name extensions* [► 42].
- the selection list **Timezone** to change the currently selected time zone for displaying the download files using the browser application.
- the selection list **UTC/Local** to switch between UTC time and the set time zone for displaying data.

- Enter your VDO Fleet access data to enable you to transfer the downloaded data directly to your VDO Fleet access.

Reminder periods

3

Specify in

- field **Calibration Reminder** when you want to be reminded of periodic inspections of your digital tachograph.
- field **Card Reminder Period** when you want to be reminded that a driver card will soon expire.
- fields **Vehicle / Card Reminder Period** when you want to be reminded of mass memory and driver card data downloads.



IMPORTANT

- Downloading must take place regularly using this DLK Smart; otherwise, the download reminders will be inaccurate.
- Please observe the legal regulations in force in your county.

4

Click on **[Save]** to apply the changes.

Password protection

The **settings** > Register **Password Protection** menu allows you to enter a password to protect the download files stored on the DLK Smart from third-party access.

The password blocks access to the DOWNLOADKEY drive and to the microSD card (if inserted). Access to the download files is only possible after you have started the browser application and entered the password.

*

Switch to the **settings** > Register **Password Protection** menu to change the password protection settings of the DLK Smart.

Enabling password protection

1

Select option **Protect downloadkey**.

2

Select the **Password type**.

⇒ Select **Numeric (for input on key display)** to use a 4-digit PIN password to enable you to enter this directly in the DLK Smart display.

⇒ Select **Any** to set a "normal" password which can only be entered directly on the computer, not directly on the DLK Smart.

3

Enter the password in the first text box.

4

Enter the password again in the **Password confirmation** field.

5

Click on **[Set]** to apply the password and to enable password protection.

**IMPORTANT**

If a password is stored, the next time you connect the DLK Smart you can only access the download files and back copies on the microSD card, after you have started the browser application "Keytools" and entered the password or entered the PIN on the display of the DLK Smart.

**IMPORTANT**

Please take the following safety measures to protect your personal data:

- Do not give your password to third parties.
- Change your password regularly.
- Keep your password in a safe place.

1

Enter your current password in the first text box.

2

Enter your new password in the second text box.

3

Enter the password again in the **Password confirmation** field.

4

Click on **[Set]** to apply the change.

**IMPORTANT**

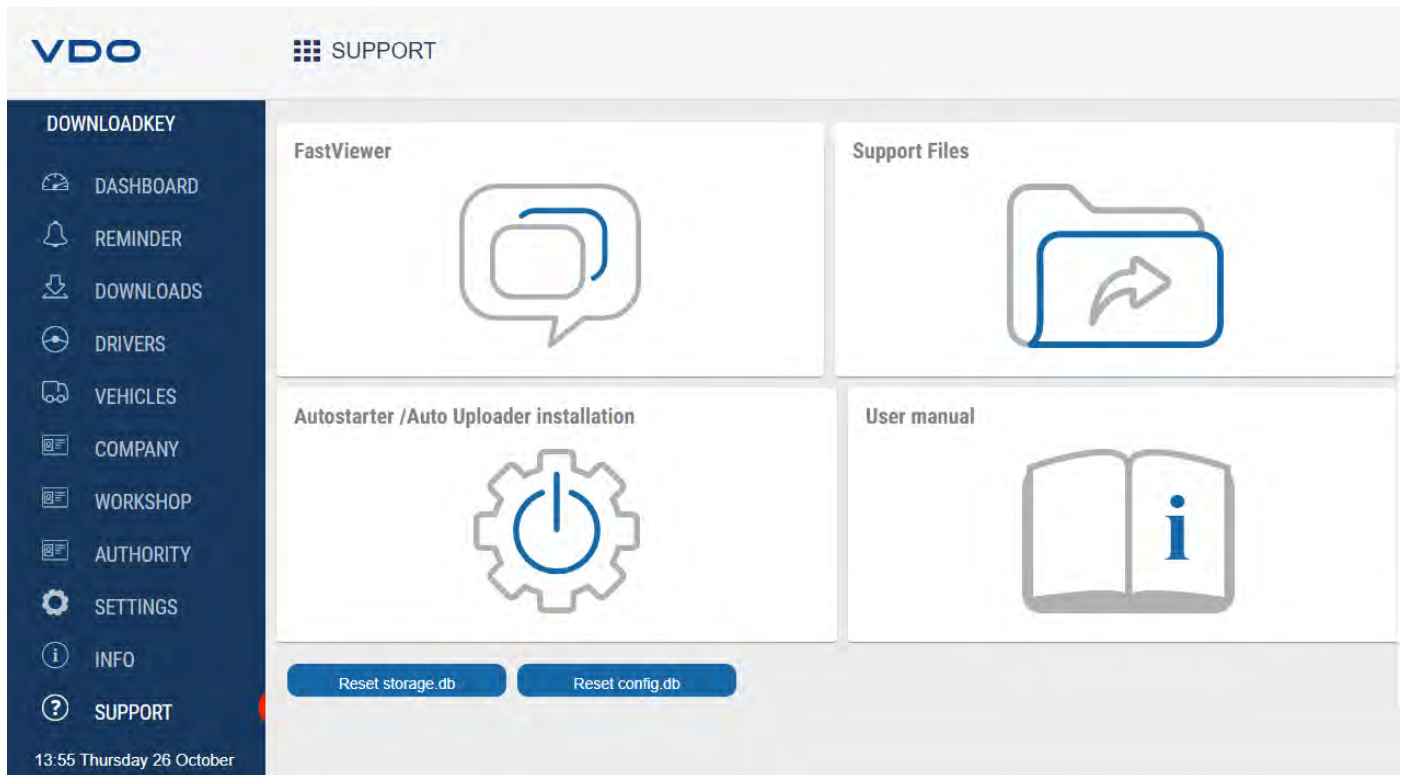
The next time you connect the DLK Smart, you must enter the new password to access the download files.

Removing the password
1

Select **Unprotect downloadkey** to remove the password protection.

- 2 Enter your password in the relevant text box.
- 3 Click on **[Unprotect]** to apply the change.
- 4 Confirm the security question with **[Yes]**.

Getting support



The DLK Smart will support you in various service scenarios.

Accordingly, select the **Support** menu if you want to

- start a FastViewer session with your service partner.
- download the log file relevant for the service from the DLK Smart. You will also find these in the "Support" folder on the "KEYTOOLS" drive.
- install the Autostarter.
- open these operating instructions.

The signature check for all files stored on the DLK Smart gives you the certainty that only correctly downloaded files are archived.

The browser application automatically enables you to keep software up to date.

Starting FastViewer

If you agree, your service partner can also solve a support problem directly on your computer:

The DLK Smart includes the FastViewer software which, with your permission, gives your service partner access to your computer.

**IMPORTANT**

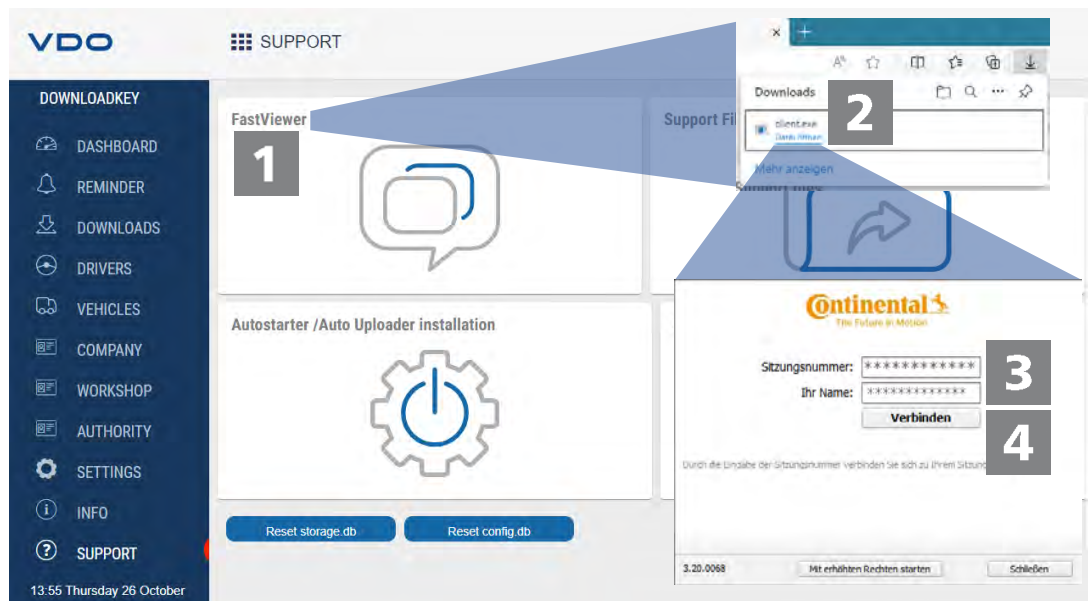
A session number is required each time a connection is established via FastViewer.

This number is uniquely generated and only valid for the current FastViewer session.

When the connection is ended, your service partner can no longer access your system.

**Requirements:**

- You have already discussed it with your service partner, he has given you a session number and now wishes to access your computer using FastViewer.
- The DLK Smart is connected to a computer which in turn is connected to the internet.

**1**

In the **Support** menu, click on **[FastViewer]** to grant your service partner access to your computer.

⇒ The "client.exe" file is downloaded into your browser's download directory.

2

Start the downloaded "client.exe" file.

⇒ The window for opening the connection is opened.

3

Enter the session number given to you by your service partner.

4

Click on **[Connect]**.

⇒ The connection is established.

**IMPORTANT**

In the programme, you must now grant your service partner the necessary rights, e. g. to display your screen or to move your mouse pointer.

5

Click on **Close** to exit the FastViewer session.

**IMPORTANT**

The FastViewer session can be terminated by you or your service partner at any time.

If your service partner terminates the session, the following message is displayed:

"The session has been terminated".

Checking the log file

The DLK Smart allows you to use the log file to look for causes for download issues.



IMPORTANT

The log file indicates any errors and/or problems when downloading data. Use this function if you notice repeated irregularities during downloading. Then e-mail it to your service partner to ascertain the cause behind the errors.

1

In the **Support** menu, click on **[Support files]** to download the log file from the DLK Smart into your browser's download directory.

2

Open the "log.txt" file using Windows Editor, for instance.

⇒ The entries to the latest download are located at the bottom of the log file.

⇒ You may also forward the log file to your service partner to resolve the issues.

Open Windows Explorer and switch to the "KEYTOOLS:\Support" directory.

Installing the Autostarter

As soon as the DLK Smart is connected to the computer, use one of the following processes, depending on the installation variant:

- Automatic start of the browser application.
- Automatic upload of the saved download data to your stored VDO Fleet access.

1

In the **Support** menu, click on **[Installing the Autostarter]** if you have not yet installed it.

⇒ The "VDOAutomaticUploadInstaller.exe" file is downloaded into your browser's download directory.



IMPORTANT

You can see whether or not the Autostarter is installed in the notification area of the taskbar. If it is installed, the  symbol is displayed.

Right-click to open its configuration: The PC application autostart and password entry options are selected by default; you can also uninstall the tool.

2

Start the downloaded "VDOAutomaticUploadInstaller.exe" file.

⇒ The Installer window is opened.

3

Select either **Auto Starter** or **Automatic Uploader** and click on **[OK]**.

⇒ The Autostarter is installed.

⇒ When the uninstall procedure is complete, you will be prompted to restart the computer.

Uninstalling the Autostarter

You can uninstall the Autostarter at any time if you no longer wish to use it.

1

In the **Support** menu, click on **[Installing the Autostarter]**.

⇒ The "VDOAutomaticUploadInstaller.exe" file is downloaded into your browser's download directory.

2

Start the downloaded "VDOAutomaticUploadInstaller.exe" file.

⇒ The Installer window is opened.

3

Select **Uninstall** and click on **[OK]**.

- ⇒ The Autostarter is uninstalled.
- ⇒ When the uninstall procedure is complete, you will be prompted to restart the computer.

Carrying out a software update

When the browser application is started, a version check is performed.

If the version used differs from the manufacturer's current version, a note on the dashboard displays the available new version.



IMPORTANT

If you abort the update, the available new version is again displayed on the dashboard when starting the browser application again.



Requirement:

The DLK Smart is connected to a computer which in turn is connected to the internet.

The screenshot shows the VDO DASHBOARD interface. On the left is a sidebar with navigation links: DOWNLOADKEY, DASHBOARD, REMINDER, DOWNLOADS, DRIVERS, VEHICLES, COMPANY, WORKSHOP, AUTHORITY, SETTINGS, INFO, and SUPPORT. The main content area displays an 'Update available' notification for 'DownloadTools 1.0.1 / 2023-11-02'. The notification lists several updates and provides buttons for 'Download update' and 'Install update'. Below the notification are sections for 'VDO FLEET', 'NEXT ACTIVITIES', 'OVERDUE REMINDERS', and 'Card Download'.

1

Start the browser application if you want to use the DLK Smart to check whether or not a more up-to-date software version is available.

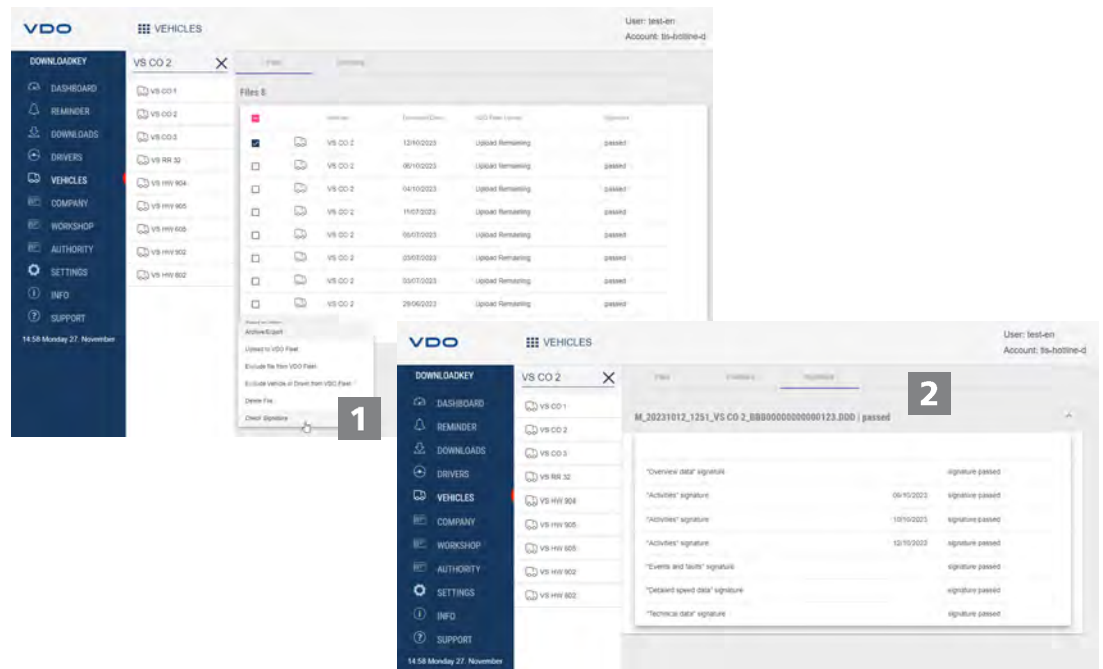
- ⇒ If a more up-to-date software version is available, a message to that effect is displayed on the dashboard.

2

Click on **[Download update]** to download the new software version onto your computer. Click on **[Install update]** to directly install the new software version.

⇒ At the end of the installation, the DLK Smart restarts. During the restart, the connection between VDO Keytools and DLK Smart is terminated. If applicable, a "No connection" message is displayed. In this case, update the browser window after the DLK Smart has been restarted.

Checking the signature of downloaded files



The DLK Smart offers you the option to check the signature of the files after the download.

Whether a signature check of a file was successful is specified directly in the file lists in the menus **Drivers** and **Vehicles**.

If a file displays **Failed** as a result of a signature check, you can check this file in more detail to identify the error cause.

1

Select a file in the file list and click on **[Check Signature]** to carry out a detailed signature check for this file.

⇒ The **Result of the signature check** is displayed in a separate tab.

2

Select the **Signature** tab and open the drop-down menu containing the details.

If an error is displayed during the signature check, load the relevant data again.

Please ensure that you adapt the current configuration – particularly the download period – of the DLK Smart in order to be able to download the same data again; ➔ *Download configuration* [▶ 33].

If the second file also has an error, please send it to your service partner for analysis.

Technical specifications

System requirements

Software

Operating system	Windows 10/11, Windows Server 2022, each with current service pack
	2 drive letters available for removable media (Disk Management) optional: 3 drive letters available with microSD card
Viewer	E.g. Adobe Reader
Internet Browser	E.g. Microsoft Edge or Google Chrome

Hardware

Processor	32 or 64-bit architecture
Interfaces	Free USB-A interface (USB 2.0 or higher) or Bluetooth BLE interface to connect the DLK Smart
Components	DLK Smart (with Browser application "Keytools")



IMPORTANT

If the computer is operated using WLAN, the security settings in the network permit "Multi network interface" since a virtual ethernet is emulated via the USB connection.

File name extensions

Up to three files are created when downloading data from a digital tachograph. In compliance with the regulations in force in the different countries, the file name tells you

- the date and time of the download,
- the origin of the data (vehicle or driver) and
- in some cases also the file type.



IMPORTANT

The file names of the download files are determined by the individual EU member states.

The name of the files stored on a DLK Smart depends on the configuration settings saved on the DLK Smart. This setting can be changed in the **Settings** > Register **Options** menu;
➔ *Download configuration* [33].

File extensions (country-specific)

Europe	*.DDD
France	*.V1B, *.C1B, *.A1B
Spain	*.TGD

UTC time

In the digital tachograph, all times are stored in UTC time (Coordinated Universal Time based on the time zone "0", previously referred to as Greenwich Mean Time or GMT time).

The time data included in the file names of the download files is also in UTC time.



IMPORTANT

The **Settings** > Register **Options** allows you to specify if the data on the DLK Smart's display and in the browser application should be displayed in UTC time or in the specified local time; ➔ *Options* [▶ 34].

Cleaning and maintenance

Thanks to its design, the DLK Smart requires only very little cleaning and maintenance.

Please note the following four general recommendations:

- Only use a damp cloth to clean the housing, display and on-off button of the DLK Smart.
- Check the charge status of the battery regularly if you use the integrated card reader often.
- After use, replace the covers of the 6-pin download plug and the USB 2.0 plug to avoid contaminating or damaging the plugs.
- To avoid breaking the wires, do not twist or kink the USB cable.

Reset function

In rare cases, the DLK Smart may be switched on, but can no longer be operated.

- In this case, use the reset button to switch off the DLK Smart; ➔ *Product overview* [▶ 9]. You can, for example, press the reset button by inserting a straightened paper clip into the reset hole.
Keep the reset button pressed until the DLK Smart switches itself off.
- Alternatively, you can keep the on-off button pressed for approx. 20 seconds until the DLK Smart switches itself off.

Disposal



WEEE-Reg. No.:
DE 59470422

Due to the integrated battery, legal regulations which go beyond the laws regarding the disposal of electronic devices must be adhered to.

Disposal in household waste is prohibited.

Please take the DLK Smart to a collection point for professional disposal or contact your service partner.

Should you have any questions regarding the disposal of a defective DLK Smart, please contact your service partner.

Declaration of conformity

AUMOVIO Aftermarket GmbH hereby declares that the DLK Smart described in these operating instructions is in conformity with the requirements and other relevant provisions contained in Directive 2004/108/EC.

The Declaration of Conformity in question has been signed. If required, a copy of the original can be requested from AUMOVIO Aftermarket GmbH.

Technical data

Supply voltage	Connection via USB 2.0 interface: 4.75 V – 5.25 V
	Connection via 6-pin interface: 9 V – 30 V
Power consumption	Connection via USB 2.0 interface: 100 mA – 500 mA
	Connection via 6-pin interface: max. 40 mA
Temperature range	Storage: -20 °C ... +85 °C
	Operation: -10 °C ... +60 °C
Interfaces	USB 2.0 interface, plug (type A)
	Standardised 6-pin interface for digital tachograph front interface, D-shape plug
	Card drawer for microSD or microSDHC card
	Chip card reader
Memory capacity	3.00 GB, of which 1.00 GB required for the KEYTOOLS partition: Browser application "Keytools", configuration data and log file 2.00 GB required for the DOWNLOADKEY partition: Download files (corresponds to approx. 5000 quarterly downloads of the entire mass memory)
Dimensions (L * W * H)	126 mm * 52 mm * 17 mm
Weight	ca. 103 g ± 10 g
Housing	PC/ABS plastic
Display	TFT colour display, resolution of 320x240 pixels and 262,000 colours
Protection class	IP3X
Battery	LiPo 3.7 V, 1170 mA·h, 4329 mW·h 63 mm * 42 mm * 4 mm, 4 mm

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