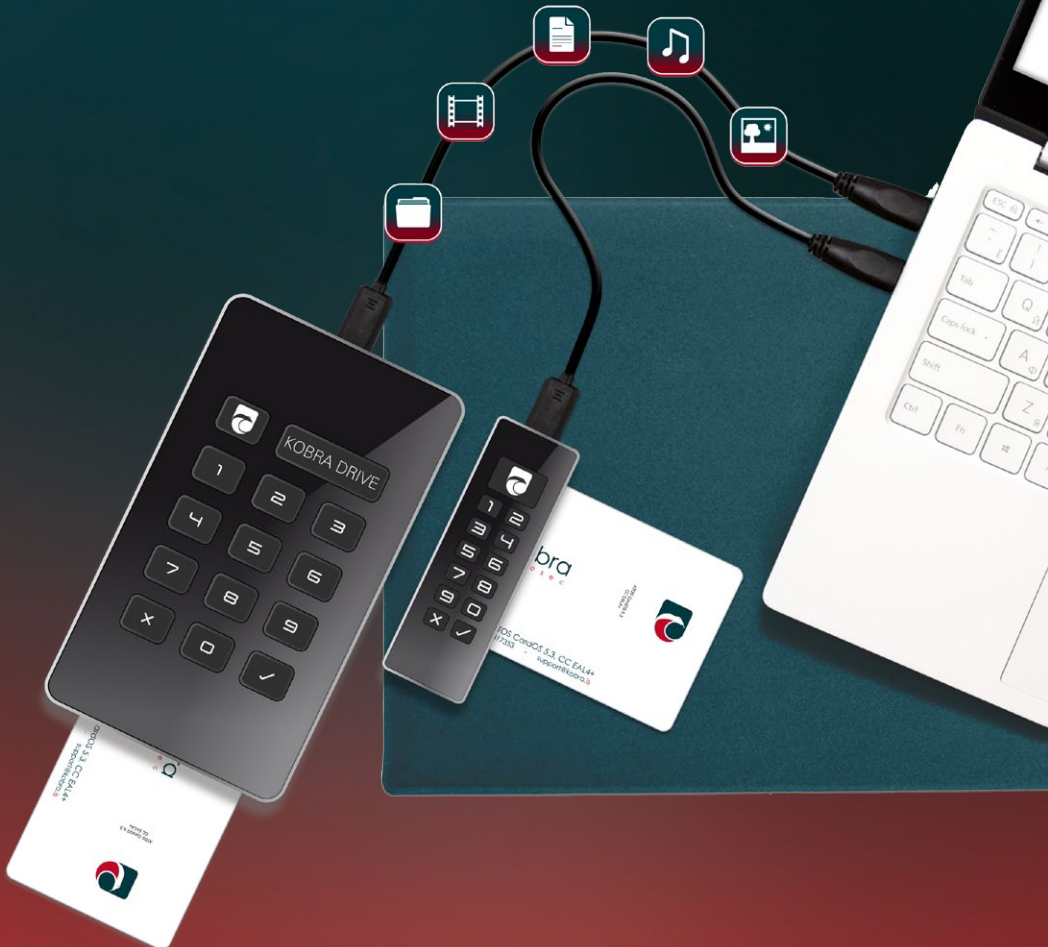




User's Guide

# Kobra Client VS

Management software for Kobra VS storage devices



Version 1.1  
22.12.2023

for business and governmental use



PLEASE READ THE MANUAL CAREFULLY AND FOLLOW THE INSTRUCTIONS.

The Kobra Client VS should only be used in an absolutely secure environment. We therefore advise using a virus-free computer that is separated from the network and stored securely, with access protection from unauthorized persons.

The digital version of the manual can be downloaded from the DIGITRADE GmbH download center:  
[www.digittrade.de/download](http://www.digittrade.de/download)

Product version:	Kobra Client VS Version 1.0
User manual:	Version 1.1 (Status 22.12..2023)

# Table of contents

1. About the Kobra Client VS	6
1.1 About the Kobra VS storage devices: Kobra Drive VS and Kobra Stick VS	8
2. System requirements	10
3. Installation of the software	10
3.1 MSI-Silent Install	12
3.1.1 Parameters	13
3.2 Verifying the digital signature	14
3.2 Add the licence file:	16
4. Login window	18
4.1 Run as administrator	18
4.2 Kobra Media Creator	19
4.3 Smartcard Options	22
4.3.1 Generate a password	23
4.3.2 Change User-PIN	23
4.3.3 Change SO-PIN/PUK	25
4.3.4 Reset the User-PIN	26
4.4 Storage device options	27
4.4.1 Disk cleanup	28
5. Starting the software	29
5.1 Starting the software for the first time	29
5.2 Regulärer Start der Software (Geräte-Login)	31
5.3 Regular start of the software (Database login)	32
5.4 Regular start of the software (Database & Device login)	33
6. Das Main window	34
6.1 Kobra VS storage device is disconnected from the host system	35
6.2 Device information	37
7. Settings	39
7.1 Switching the lockout function on/off	39
7.2 Manage power bridging	40
7.3 Set Timeout in minutes	41
7.4 Switch Admin-PIN on/off	42
7.5 Switching locking on/off when ejecting	43
7.6 Activate / deactivate keypress simulation	44
7.7 Switch self-formatting on/off	45
7.8 Manage PIN entry on the VS storage device	46
8. Advanced settings	47
8.1 Edit update key	47

8.2 Edit Admin-PIN	48
8.3 Import and export configuration	50
8.4 Generate new DEK	51
8.5 Change drive type	52
9. Presets	54
9.1 Add presets	55
9.2 Load presets	56
9.3 Information about presets	57
9.4 Delete default settings	58
10. Smartcard table	59
10.1 Smartcard auslesen und hinzufügen	60
10.2 Add smartcard manually	62
10.3 Smartcard table: Deactivate / activate write authorisation	64
10.4 Label (Beschreibung) einer Smartcard ändern	65
10.5 Open smartcard in database	66
10.6 Smartcard table: Delete smartcard	67
10.7 Smartcard-Tabelle importieren / exportieren	68
10.8 Delete smartcard table	70
11. Database	71
11.1 Create database	71
11.2 Open database in Login window	73
11.3 Open database in Main window	74
11.4 Database window	76
11.5 Suche	76
11.6 List of VS storage devices and smartcards	77
11.6.1 Explanation of the symbols	78
11.7 Read information about VS storage devices	78
11.8 Read information about smartcard	79
11.9 Export of storage devices and smartcards from the database	81
12. Scope of delivery	83
13. Notes	83
14. Data security and disclaimer	83
15. Dealing with security errors and problems	83
15.1 Report error	83
15.2 Registration	84
15. Note on the protection and preservation of the environment	85

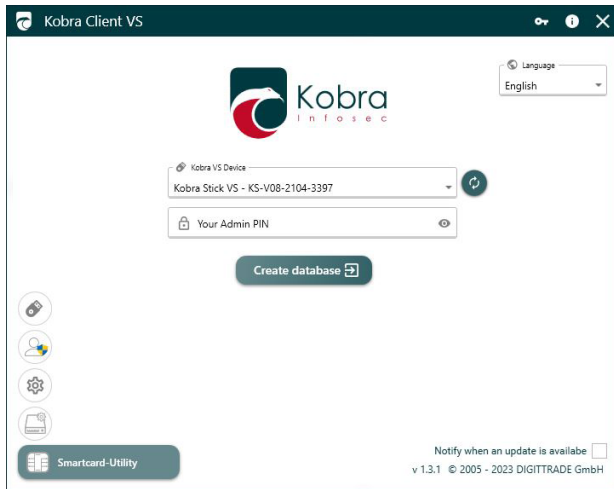
# 1. About the Kobra Client VS

The Kobra Client VS is an administration software for the Kobra VS storage devices. It enables the administrator to configure the Kobra VS storage devices for each individual user quickly and in a task-oriented manner. The settings made can be exported and saved as settings profiles for specific user groups. These settings can then be quickly applied to any Kobra VS storage devices. The following settings can be made, exported and imported:

- a) Changing and locking the Admin-PIN
- b) Changing the user and SO-PIN
- c) Generation and modification of the update key
- d) Configuring lock-out and Timeout functions
- e) Deleting and creating a smartcard table
- f) Adding additional smartcards (PKI cards) to the smartcard table
- g) Defining read and write permissions for each user

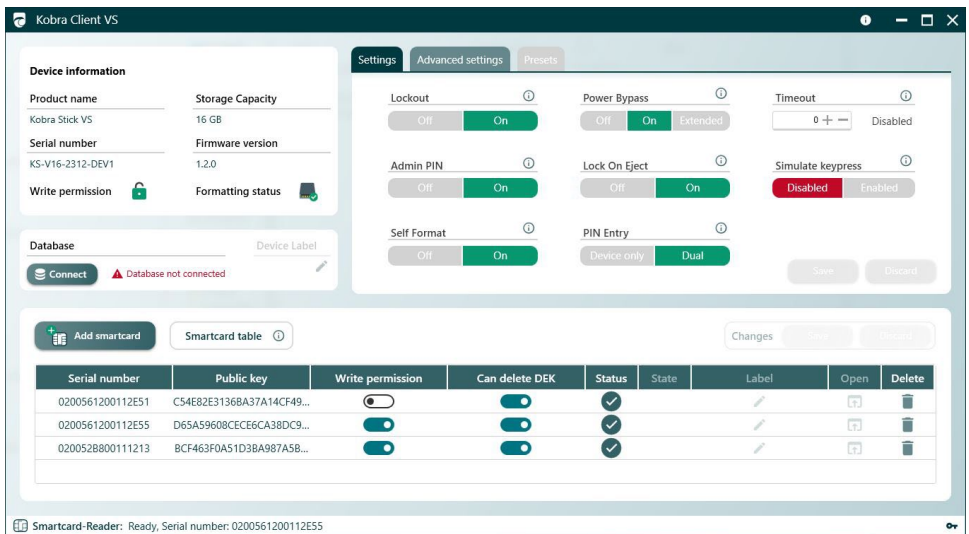
With the help of this software, the administrator can read out the serial number and the public key directly from the DIGITRADE smartcard (PKI card) inserted in the Kobra VS storage device. He can also obtain this information from the smartcard table of the Kobra VS storage device. In this case, he can also find out whether the respective smartcard owner is only authorized to read or also to write on the Kobra VS storage device.

After starting the Kobra Client VS software, the Login window appears first. In this window, the administrator can select the language as well as search for a connected Kobra VS storage device. At this point, one or more Kobra VS storage devices can be connected to the host system if this has not already been done. After the update, the administrator can browse the list box of available Kobra VS storage devices again. The serial number of the selected Kobra VS storage device is also displayed in the Login window.



## Login window

To log in, the administrator enters the Admin-PIN of the selected Kobra VS storage device and clicks the Login button. If authentication is successful, the main menu opens. At the same time, the current settings of the Kobra VS storage device and the smartcard table with the released DIGITRADE smartcards (PKI cards) are loaded into this menu.



## Main window

## 1.1 About the Kobra VS storage devices: Kobra Drive VS and Kobra Stick VS

The external encrypted data storage devices Kobra Drive VS as well as Kobra Stick VS (1FF) and Kobra Stick VS (2FF) are an external USB-C hard disk drive (HDD/SSD) and USB-C memory sticks with hardware-based encryption in sturdy, elegant metal housings with integrated input keyboard. The devices provide the same security services and only differ in their design as well as the possible storage capacities. For this reason, they are referred to as Kobra VS storage devices in this administrator's guide.

The Kobra VS storage devices allow sensitive, personal and confidential information to be stored and transported securely up to classification level VS-NfD (classified information - for official use only). These storage devices were developed in accordance with the BSI's (German Federal Office for Information Security) "Technical Guidelines" and bear the "IT Security made in Germany" quality mark. They correspond to the current state of the art and, due to their security functions, are currently one of the most secure options for mobile data storage.

The data stored on the Kobra VS storage device is protected against unauthorized access with regard to the confidentiality of the information, for example if the Kobra VS storage device is lost, misplaced or stolen. At the same time, it withstands logical and physical attacks.

Thanks to the built-in storage device in 2.5" format, the Kobra Drive VS hard disk is already small and handy as an HDD/SSD. The optional use of SSD storage devices with the Kobra Drive VS provides additional protection against shock and vibration. Data transfer and power supply are via the USB-C port. The Kobra Stick VS (1FF) and Kobra Stick VS (2FF) offer the same security features as the Kobra Drive VS in an even more compact format.

The Kobra VS storage devices can be delivered in a PKI-based or stand-alone environment. This fundamentally distinguishes between two application scenarios. In the PKI-based variant, only Kobra VS storage devices are made available. These are set up by the user's administrators. Therefore, the PKI-related properties of the Kobra VS storage device are also governed by the administrator's IT security concepts.

These are primarily the generation and storage of the key pair (consisting of a public and a private key), the user and SO-PIN specifications (length and number of failed attempts), and the other organizational measures. Therefore, the properties of the Kobra VS storage device are described in detail below, predominantly with regard to the stand-alone environment.

The stand-alone scenario (also called independent scenario), on the other hand, involves the delivery of the Kobra VS storage device together with two DIGITRADE smartcards (Atos CardOS 5.3, CC EAL 4+) in a completely preset state. This Kobra VS storage device can basically be used immediately in case of urgent need. In the VS-NfD-approved configuration, however, the user may only put the Kobra VS storage



device into operation after first changing the user and SO-PINs and generating a new DEK on the Kobra VS storage device itself.

To use the security features of the Kobra VS storage device to the full extent and within the scope of the VS NfD approval, the following steps are required:

- Ensure that your host system provides adequate protection for all data accessed from the protected memory area of the Kobra VS storage device.
- After receiving the Kobra VS storage device, check that the delivery is complete and correct
- Check via the host system that the USB properties of the storage device match the model designation and serial number on the back of the Kobra VS storage device
- Change the user and SO-PIN on both DIGITRADE smartcards
- Change the Admin-PIN if you have administrator rights
- When choosing the admin, user and SO-PINs, trivial PINs should be avoided and the default PINs should be excluded
- Create a new DEK on the Kobra VS storage device
- Check if logon is possible with all unlocked DIGITRADE smartcards (or your PKI card)
- Treat your authentication features (smartcard and PIN) confidentially

A detailed description of the above steps can be found in this administrator manual in the corresponding chapters. The model designation as well as the serial number can be found on the back of the respective Kobra VS storage device. This information can be retrieved using the supplied Kobra Client VS software and via the USB device information on the host system.

The Kobra VS storage device ensures data confidentiality by means of the following security mechanisms:

- Encryption
- Access control
- Key management
- User management

**Note:**

*In the Kobra Client VS software, most of the functions and buttons show a tooltip if you stand still with the mouse over the elements for a few seconds.*

## 2. System requirements

Operating system: Windows® 11 (64 bit)  
Windows® 10 (64 bit)

CPU: Minimum:  
x64-CPU: 1,4 GHz

RAM: Minimum:  
512 MB RAM

Software: Recommended:  
PDF-Reader

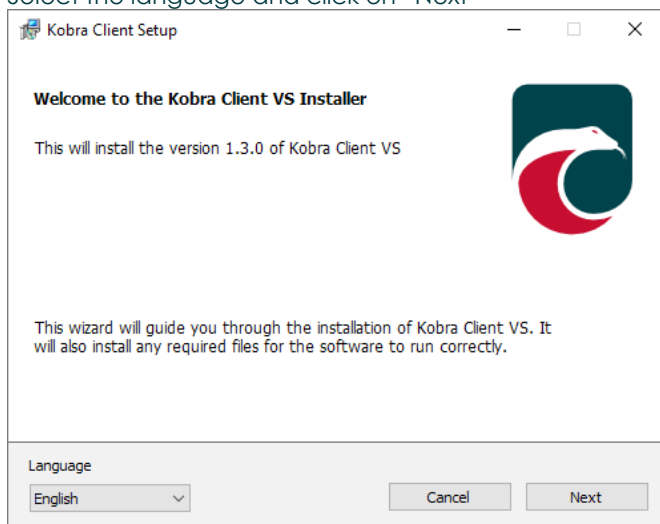
## 3. Installation of the software

By default, installation is performed using an MSI file.

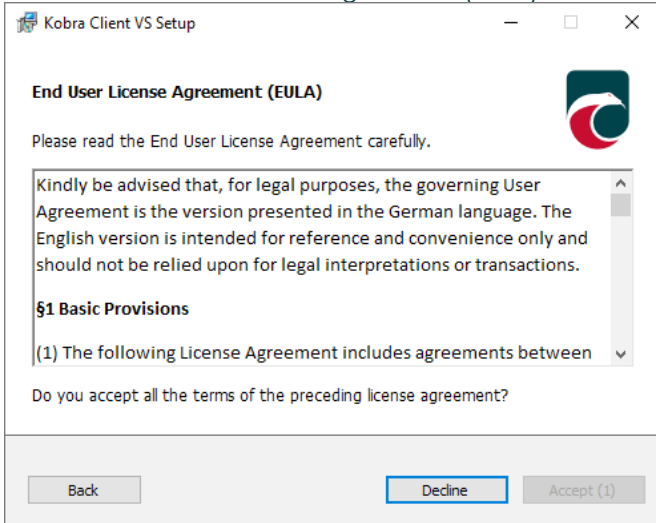
The Kobra Client VS can be downloaded from the DIGITRADE online shop at [www.kobra-infosec.de](http://www.kobra-infosec.de). After purchasing a VS storage device, you will be provided with a download link and a licence file. Please contact us at: [vs@kobra-infosec.de](mailto:vs@kobra-infosec.de).

To install the Kobra Client VS, proceed as follows:

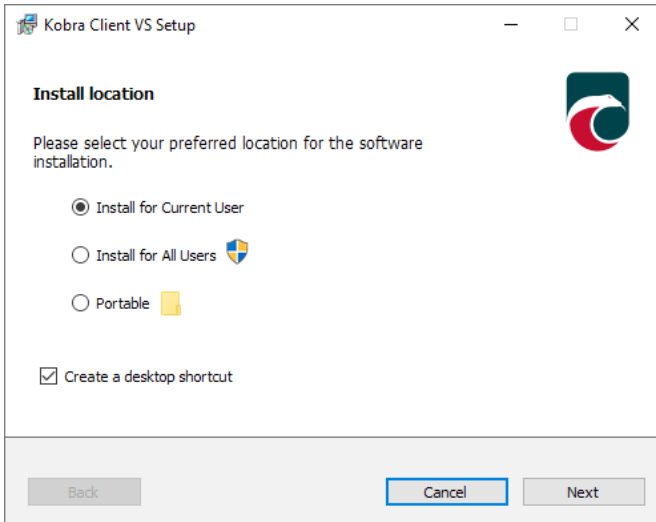
- Download the latest version of the Kobra Client VS.
- Execute the "Kobra\_Client\_VS.msi".
- Select the language and click on "Next"



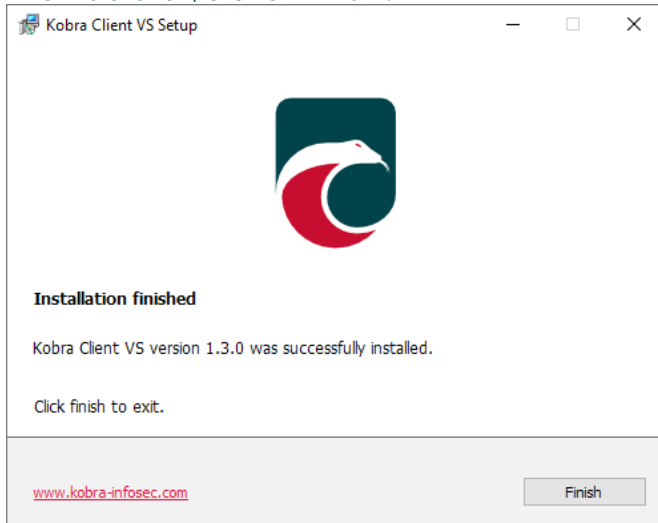
- Read the End User Licence Agreement (EULA) and click on “Accept”



- Select whether the software should be installed for the current user or for all users. You also have the option of performing a portable installation. Administrator rights are required for the installation for multiple users. Click on “Next”.



- After installation, click on "Finish".



After saving the software and licence file in a folder of your choice, run the „Kobra\_Client\_VS.msi“ (more on this in chapter 3.3 Adding the licence file).

**Note:**

Please note that "Windows .NET Desktop Runtime 6.0 " must be installed on your Windows system in order to use the Kobra Client VS. You can download this software from the following link:

<https://dotnet.microsoft.com/en-us/download/dotnet/6.0>

**Note:**

The Kobra Client VS automatically recognises your language settings in the system (German or English).

**Note:**

Administrator rights are required for installation for multiple users.

## 3.1 MSI-Silent Install

„MSI Silent Install“ enables an installation without any interaction and can free system administrators from the task of monitoring each installation and making entries in prompts and dialogue boxes. MSI Silent Install is particularly suitable for installing Kobra Client VS simultaneously on different systems.

Perform the MSI-Silent installation as follows:

### For multiple users or systems

- 1) Open the command line as administrator
- 2) Navigate to the MSI file. Use the "cd" command to navigate to the MSI file folder (example: `cd C: \path\to\msi`)
- 3) Execute the following installation command:  
`msiexec /i "package.msi" /qn ACCEPT_EULA=1`
- 4) Add `LICENSE_FILE="Path\to\Licence"` if this is required.

### For the current user or system

- 1) Open the command line
- 2) Navigate to the MSI file. Use the "cd" command to navigate to the MSI file folder (example: `cd C: \path\to\msi`)
- 3) Execute the following installation command:  
`msiexec /i "package.msi" /qn ACCEPT_EULA=1`
- 4) Add `LICENSE_FILE="Path\to\Licence"` if this is required.

#### Note:

*Administrator rights are required for the installation for multiple users.*

#### Note:

*If errors occur, check the paths of the MSI and licence file and confirm that you have the correct authorisations.*

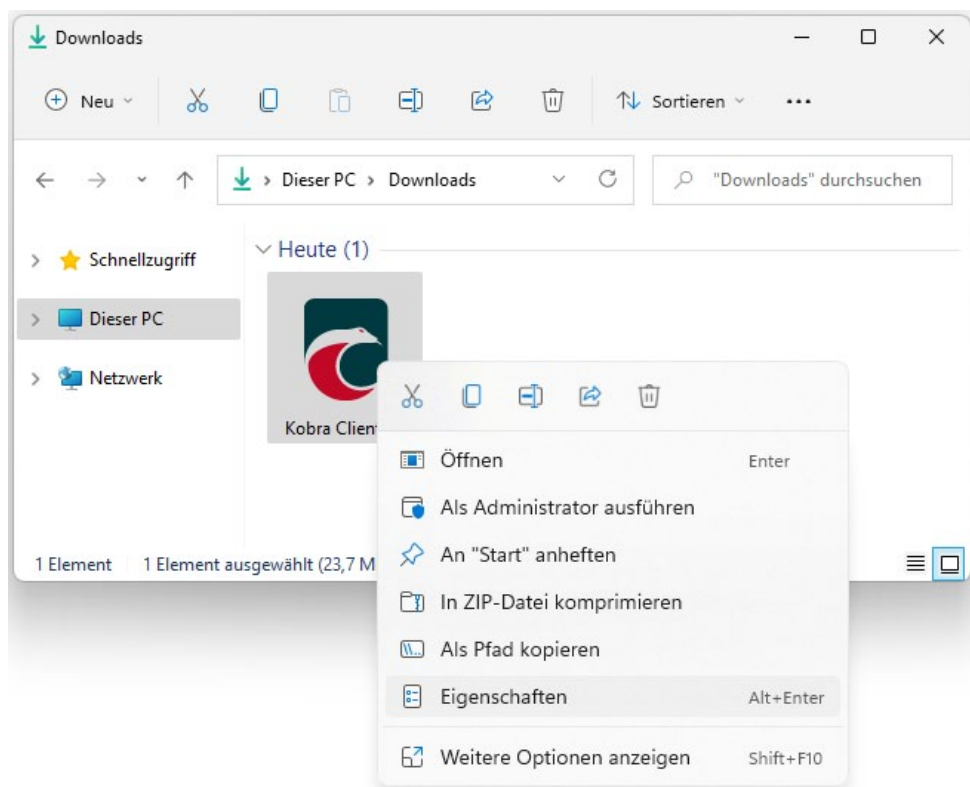
## 3.1.1 Parameters

- `ALLUSERS=1` for installations for all users.
- `ACCEPT_EULA=1` must always be used.
- `LICENSE_FILE:` Only add if a licence file is to be copied automatically.

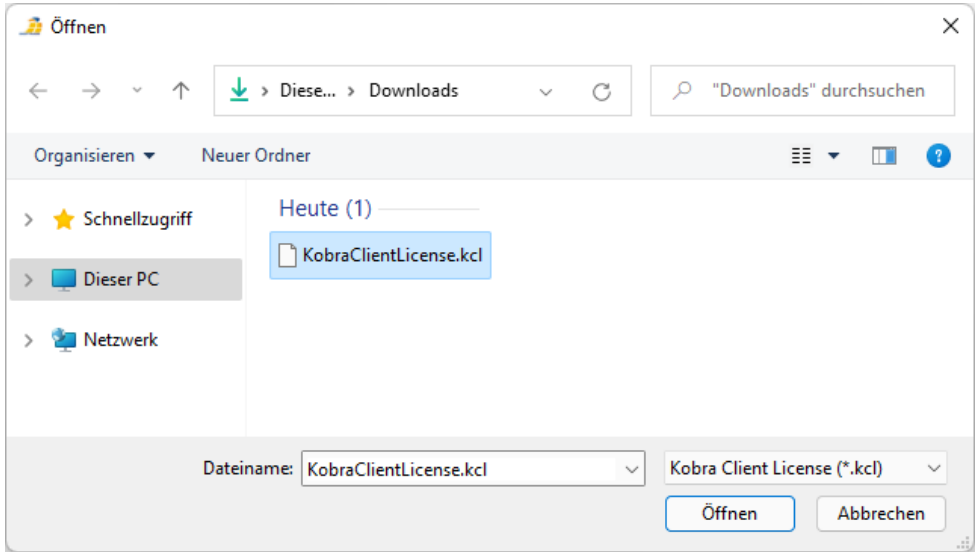
## 3.2 Verifying the digital signature

To verify the digital signature of the Kobra Client VS, please follow the steps below:

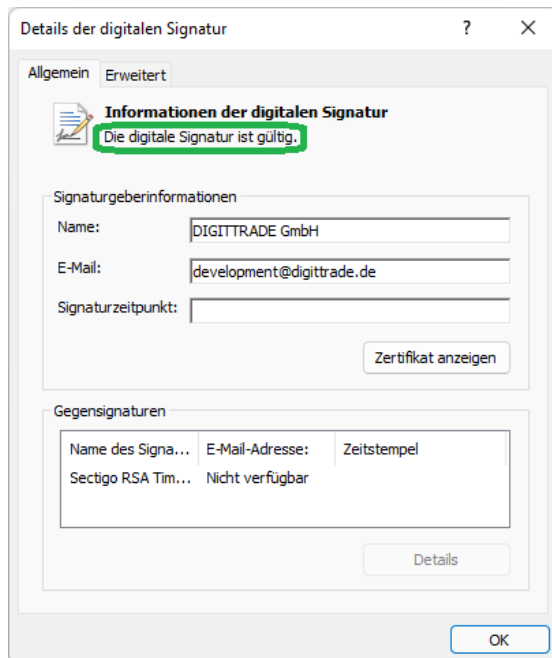
- Right-click on the Kobra Client VS and open the "Properties"



- Right-click on the Kobra Client VS and open the "Properties"

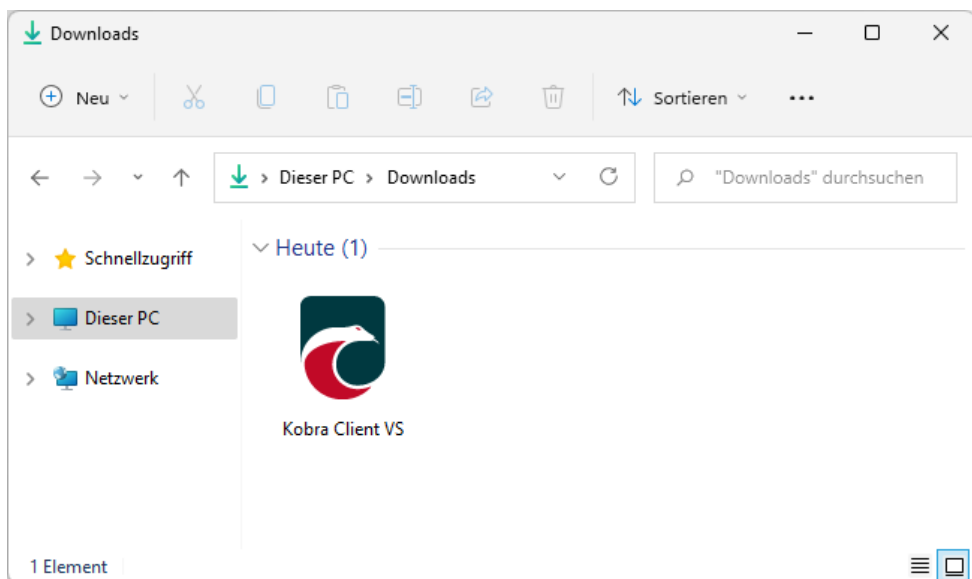


- Now click on "Digital signatures" in the top menu.
- Select the signature from the signature list and then click on "Details".

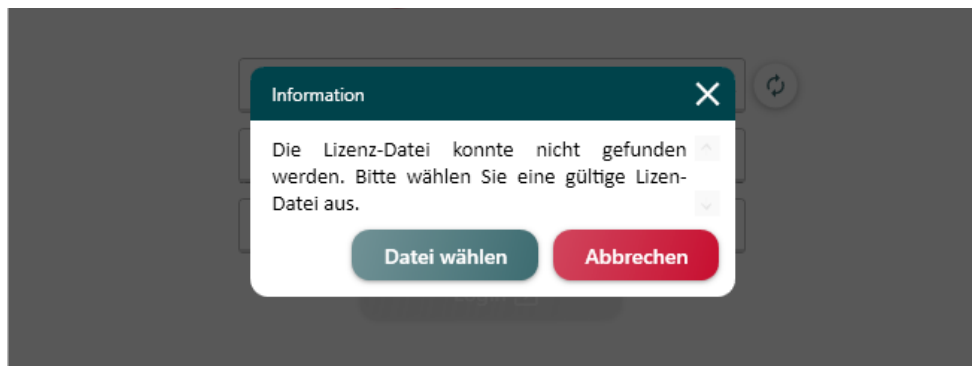


## 3.2 Add the licence file:

- Download the latest version of the Kobra Client.
- After downloading, open the folder in which you have saved the Kobra Client

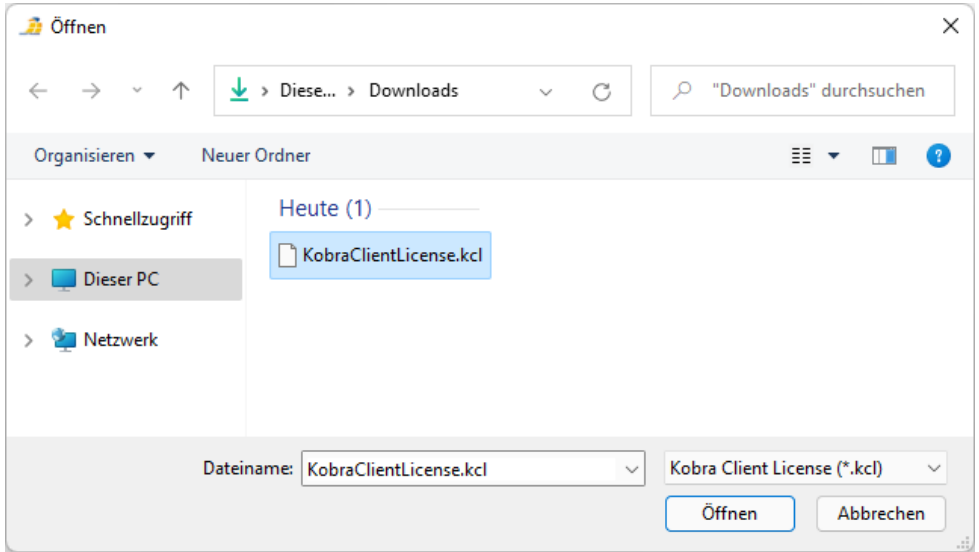


- Move the Kobra Client to your desktop, for example.
- Start the Kobra Client.
- Click on "Select file".



- Now select the licence file:

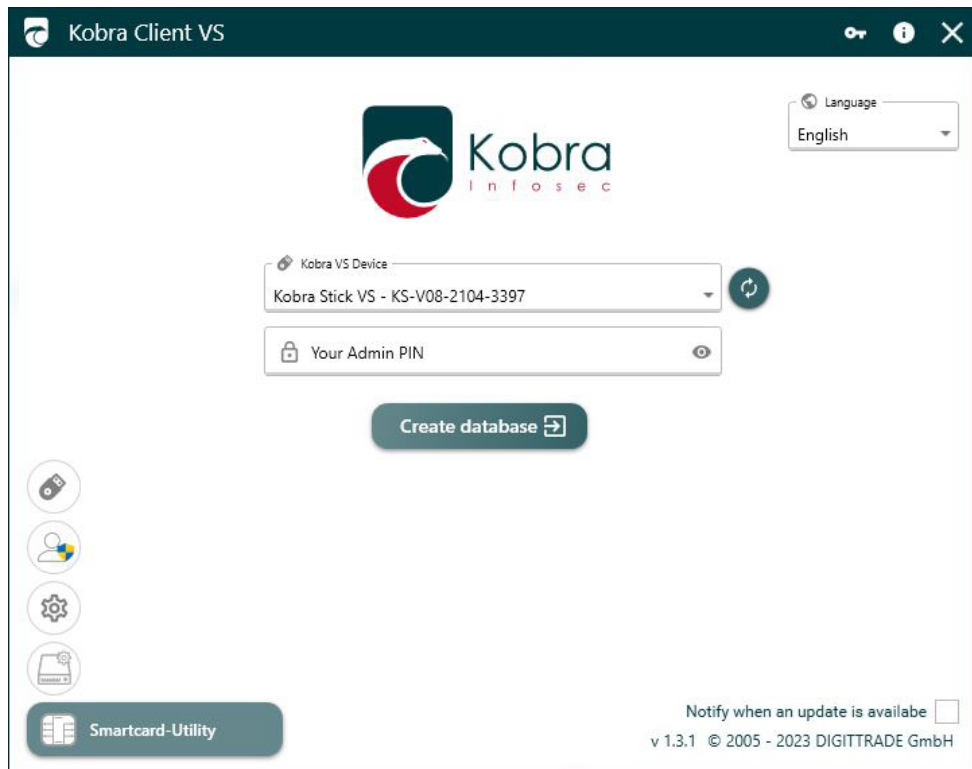




- Click on "Open".

The licence file is automatically copied to the Kobra Client directory. If you move the Kobra Client at a later date, you must also move the licence file. Otherwise you will have to import the licence file again.

## 4. Login window



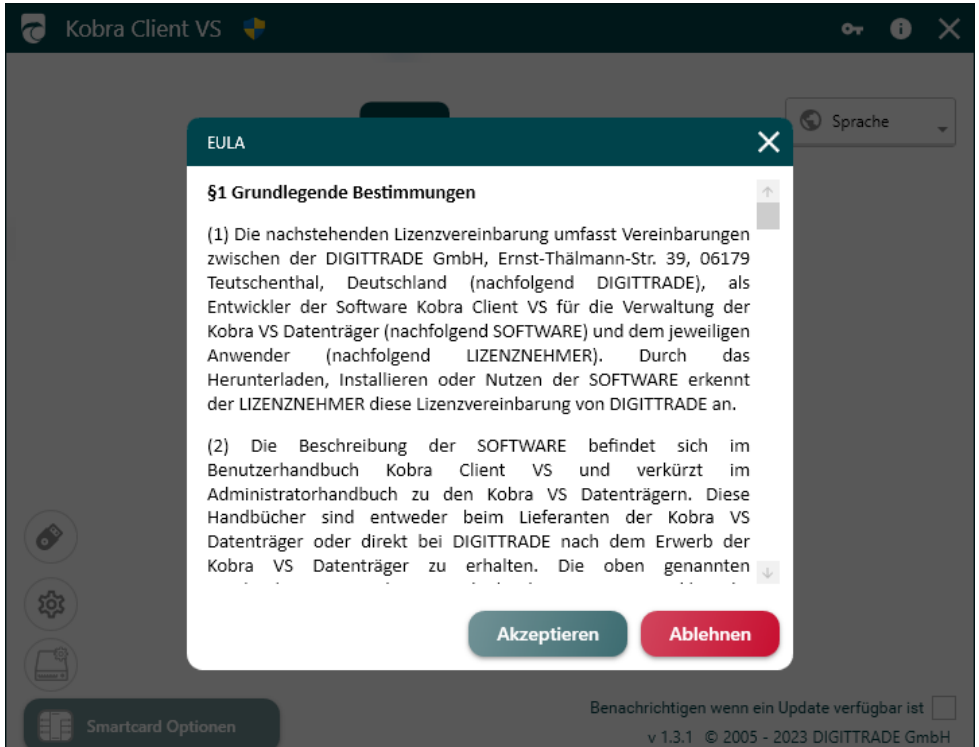
### 4.1 Run as administrator

You have the option of running the Kobra Client VS as an administrator. To do this, click on the administrator icon on the left in the Login window:



Enter your Administrator name and your Administrator password in the following Login window.

Confirm the EULA after your administrator login.



### Note:

*If the Kobra Stick is configured as a local storage device, it is necessary to start the Kobra Client as an administrator. To do this, please click on the "Start as administrator" button in the Login window. The Kobra Client will restart after the administrator data has been successfully entered.*

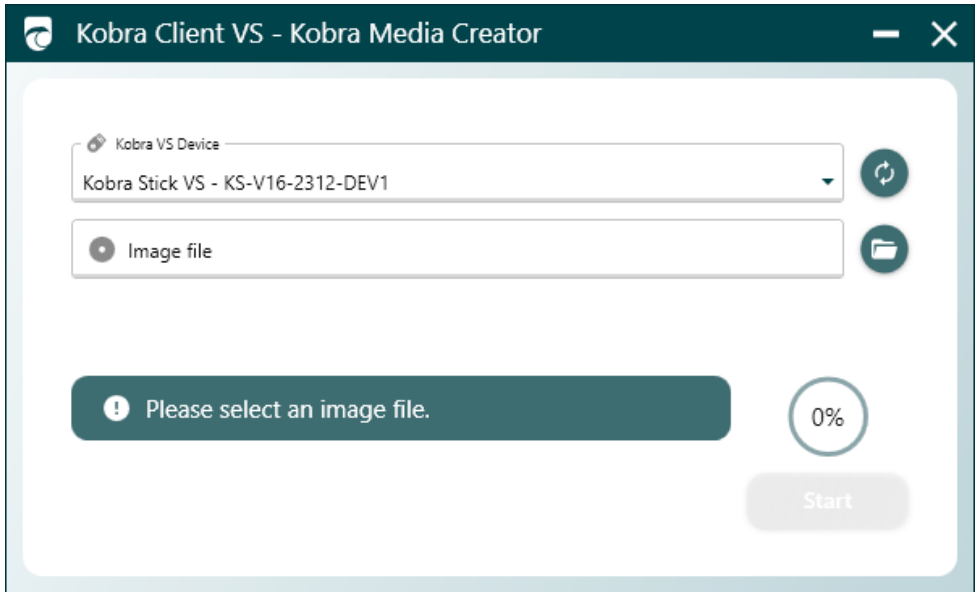
## 4.2 Kobra Media Creator

You have the option of using the „Kobra Media Creator“ to create „Windows Portable Workstations“ on the Kobra VS storage devices. In addition, ISO files can be provided directly on the Kobra VS storage devices, both in ISO and DD mode.

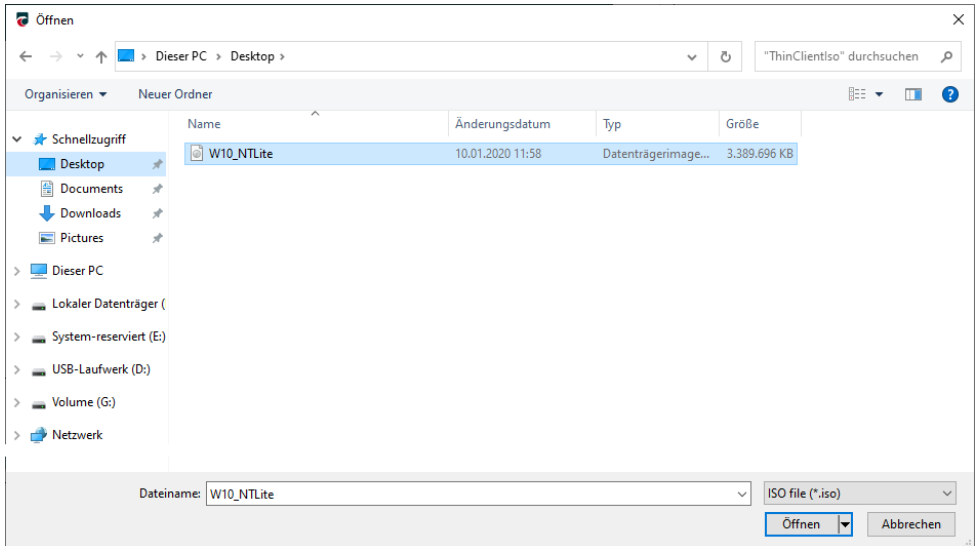
- To do this, click on the USB stick symbol on the left in the Login window:



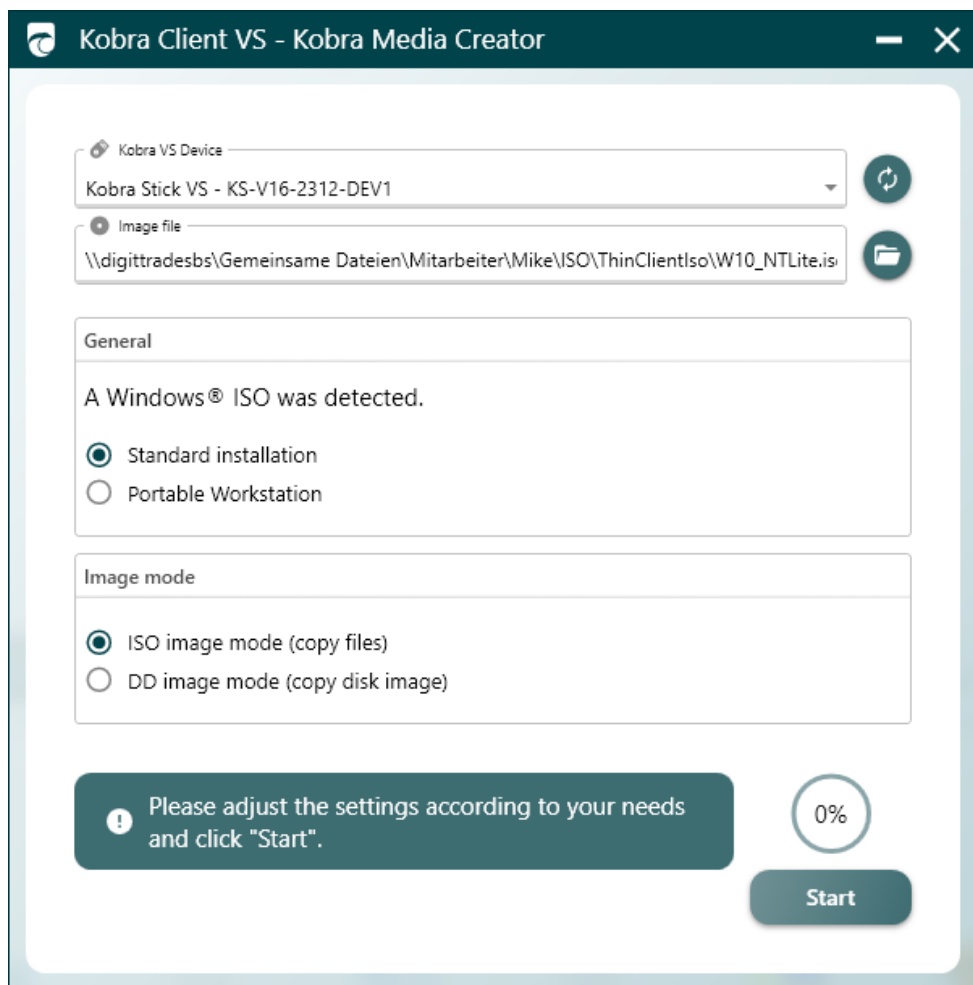
- The following view opens:



- Now select the ISO file from your path and then click on "Open".



Now customise the options according to your requirements. To do this, select whether a standard installation should be carried out or whether the VS storage device should act as a mobile workstation. You also have the option of using the ISO image mode or the DD image mode.



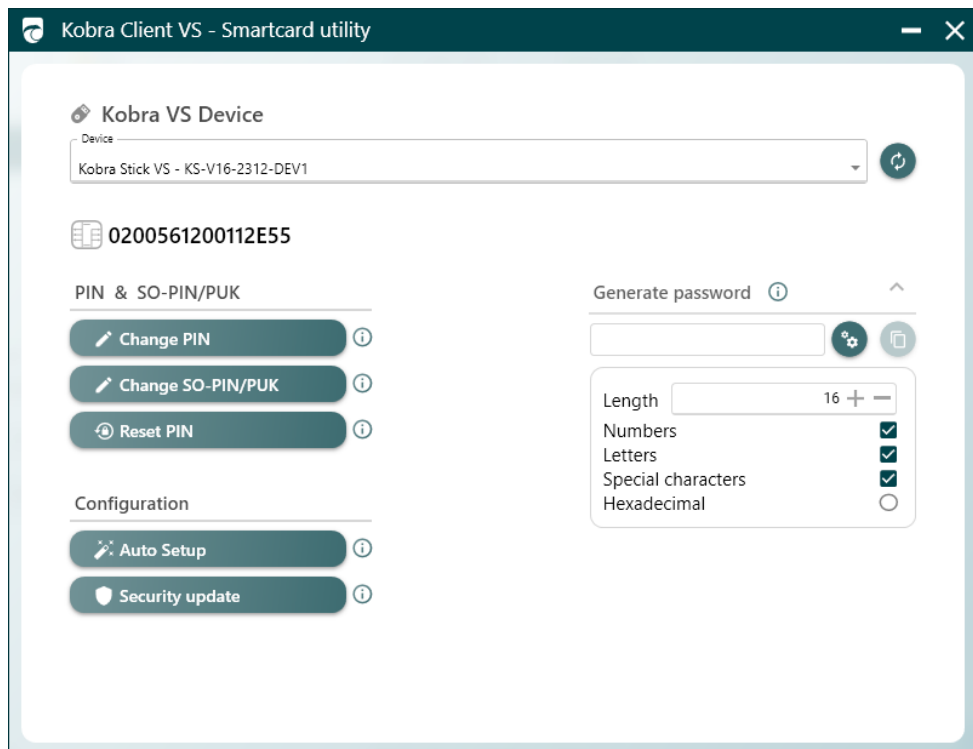
- Now click on "Start" to perform the installation.

## 4.3 Smartcard-Utility

In the Login window, you have the option of making settings for the smartcards of your Kobra VS storage device. To do this, click on the smartcard symbol at the bottom left:



The following view opens:

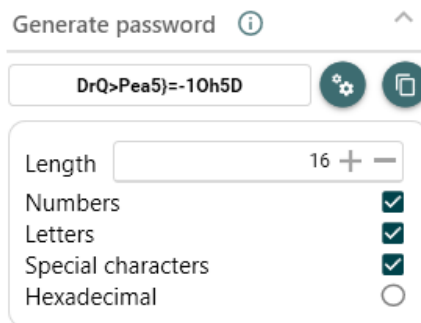


### Note:

Please note that changes and settings can only be made to the smartcard if it is inserted in the Kobra VS storage device, which acts as a smartcard reader.

## 4.3.1 Generate a password

You can generate a password that you need to create a database or to change the public key of a smartcard.



Generate password ⓘ

DrQ>Pea5)=-10h5D

Length 16 + -

Numbers

Letters

Special characters

Hexadecimal

The password can consist of numbers, letters and special characters as well as hexadecimal characters.

## 4.3.2 Change User-PIN

To change the User-PIN of a smartcard, click on „Change PIN“:

 0200561200112E55

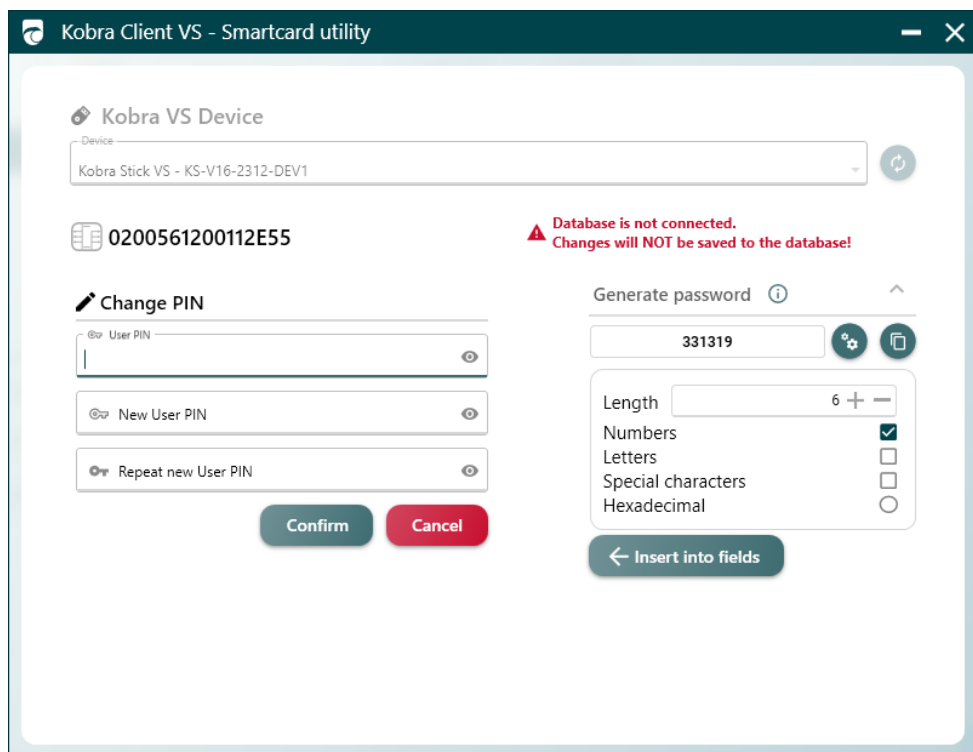
PIN & SO-PIN/PUK

 Change PIN ⓘ

 Change SO-PIN/PUK ⓘ

 Reset PIN ⓘ

Enter the new User-PIN and repeat it. Then click on „Confirm“.



The main button on the VS storage device flashes green. Enter the old User-PIN on the VS storage device and confirm it with the „√“ button on the VS storage device. If entered correctly, the main button flashes green once and the VS storage device then switches to wait mode (the main button lights up light blue).

If you have entered the old User-PIN incorrectly, the main button flashes red depending on the number of incorrect attempts and the VS storage device switches to waiting mode.

**Note:**

*Please note that the User-PIN will be blocked if it is entered incorrectly too many times in succession.*



### 4.3.3 Change SO-PIN/PUK

To change the SO-PIN, click on „Change SO-PIN/PUK“:

 0200561200112E55

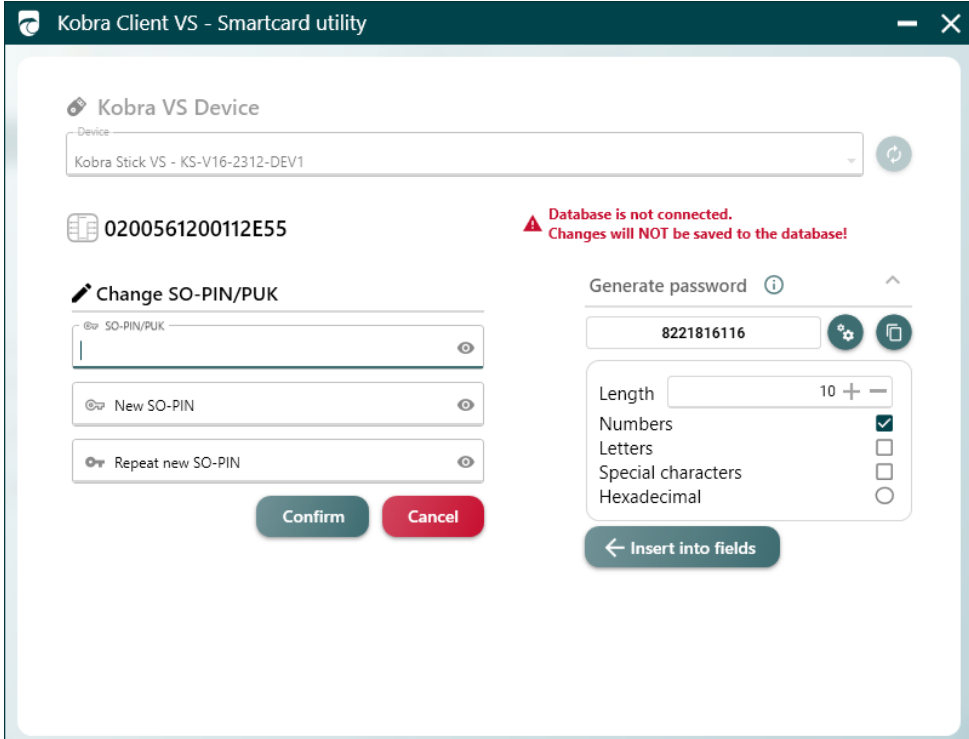
PIN & SO-PIN/PUK

 Change PIN 

 Change SO-PIN/PUK 

 Reset PIN 


Enter the new SO-PIN and repeat it. Then click on „Confirm“.



Kobra Client VS - Smartcard utility

Kobra VS Device

Device: Kobra Stick VS - KS-V16-2312-DEV1

 0200561200112E55

**Database is not connected.**  
Changes will NOT be saved to the database!


**Change SO-PIN/PUK**



SO-PIN/PUK

New SO-PIN

Repeat new SO-PIN

Confirm Cancel

Generate password  ^

8221816116  

Length 10 + -

Numbers

Letters

Special characters

Hexadecimal

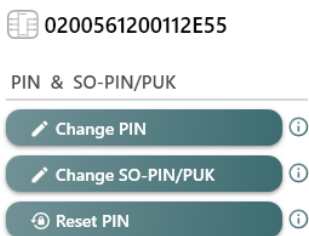
← Insert into fields

The main button on the VS storage device flashes green. Therefore, enter the old SO-PIN on the VS storage device and confirm this with the „√“ button on the VS storage device. If entered correctly, the main button flashes green once and the VS storage device then switches to wait mode (the main button lights up light blue).

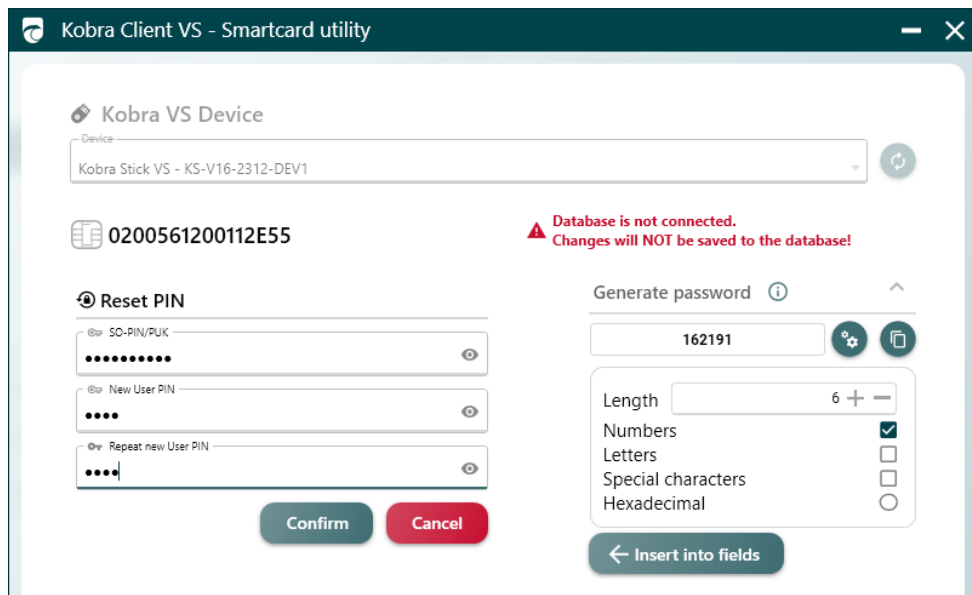
If you have entered the old SO-PIN incorrectly, the main button flashes red depending on the number of incorrect attempts and the VS storage device switches to waiting mode.

## 4.3.4 Reset the User-PIN

To reset the User-PIN using the SO-PIN, click on „Reset PIN“:



Enter the new User-PIN and repeat it. Then click on „Confirm“.



The main button on the VS storage device flashes green. Therefore, enter the current SO-PIN on the VS storage device and confirm it with the „√“ button. If entered correctly, the main button flashes green once and the VS storage device then switches to wait mode (the main button lights up light blue).

If you have entered the current SO-PIN incorrectly, the main button flashes red depending on the number of incorrect attempts and the VS storage device switches to waiting mode.

**Hinweis:**

*Please note that the SO-PIN will be irrevocably destroyed if it is entered incorrectly too often.*

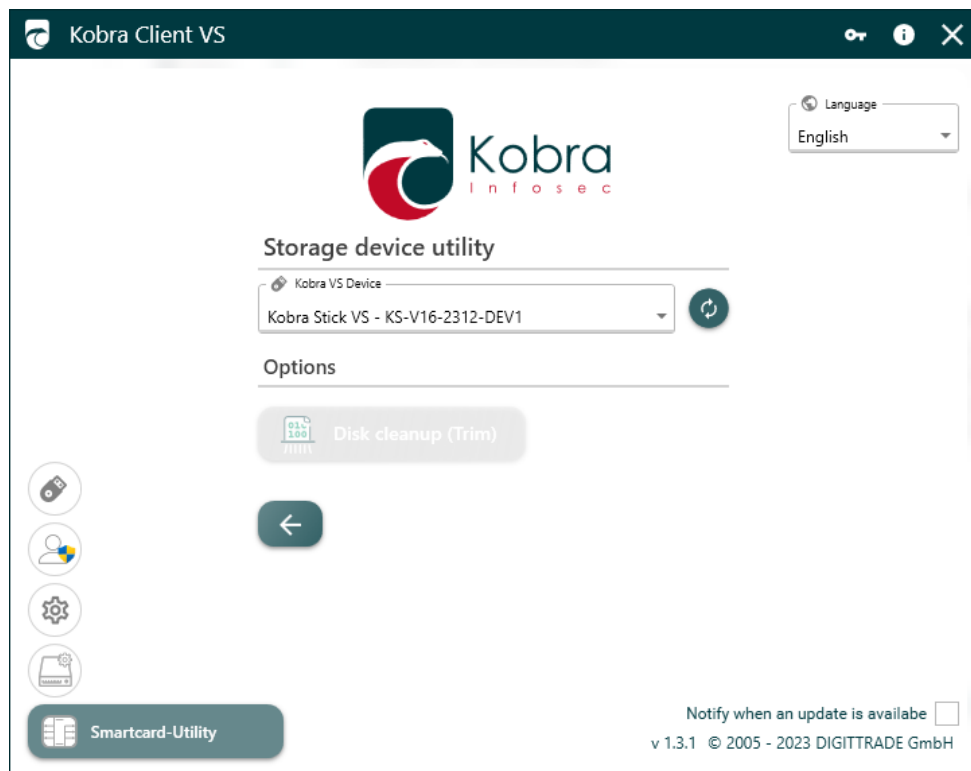
## 4.4 Storage device utility

You already have the option of making initial settings for the Kobra VS storage devices in the Login window. To do this, click on the hard disc symbol at the bottom left:



## 4.4.1 Disk cleanup (Trim)

Click on „Disk cleanup (Trim)“ to clean up the VS storage device. During this process, the VS storage device is formatted. All data that is no longer required is then deleted. This process can extend the service life of SSD and flash memory.



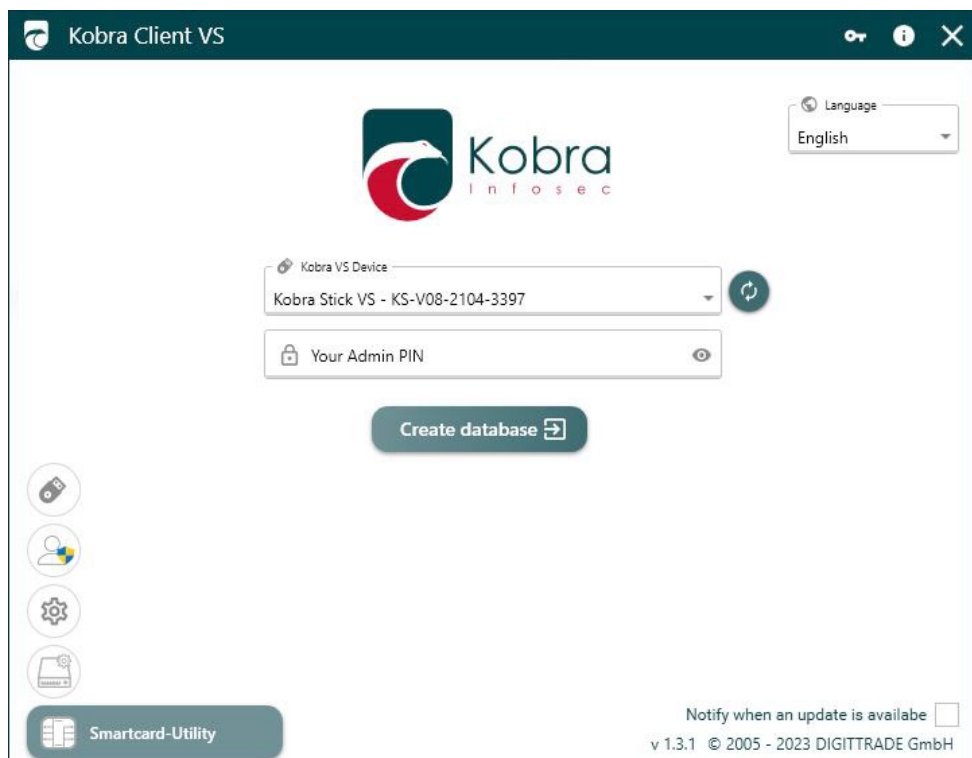
The screenshot displays the Kobra Client VS application window. The title bar reads "Kobra Client VS" and includes standard window controls (minimize, maximize, close). The main interface features the Kobra Infosec logo at the top center. In the top right corner, there is a language selection dropdown menu currently set to "English".

The central section is titled "Storage device utility". It contains a dropdown menu labeled "Kobra VS Device" with the selected item "Kobra Stick VS - KS-V16-2312-DEV1" and a refresh icon to its right. Below this is an "Options" section with a prominent button labeled "Disk cleanup (Trim)" accompanied by a small icon of a hard drive with a checkmark. A back arrow button is located below the "Disk cleanup (Trim)" button.

On the left side of the interface, there is a vertical sidebar with four circular icons: a USB drive, a person with a checkmark, a gear, and a smartcard. At the bottom left, a button labeled "Smartcard-Utility" is visible. At the bottom right, there is a checkbox labeled "Notify when an update is available" which is currently unchecked. Below the checkbox, the version and copyright information "v 1.3.1 © 2005 - 2023 DIGITTRADE GmbH" is displayed.

## 5. Starting the software

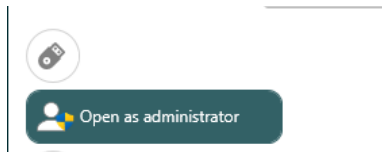
### 5.1 Starting the software for the first time



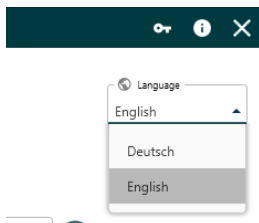
**Note:**

*Make sure that a valid licence file is stored in a folder with the Kobra Client VS software.*

You also have the option of running the Kobra Client VS software as an administrator. This can be done by clicking on the administrator icon:



The default language of the Kobra Client is the language of your Windows operating system. However, you can change the language at the top left of the Login window by choosing between German and English.



If you do not have a Kobra VS storage device connected to your host system, the device list will remain empty.



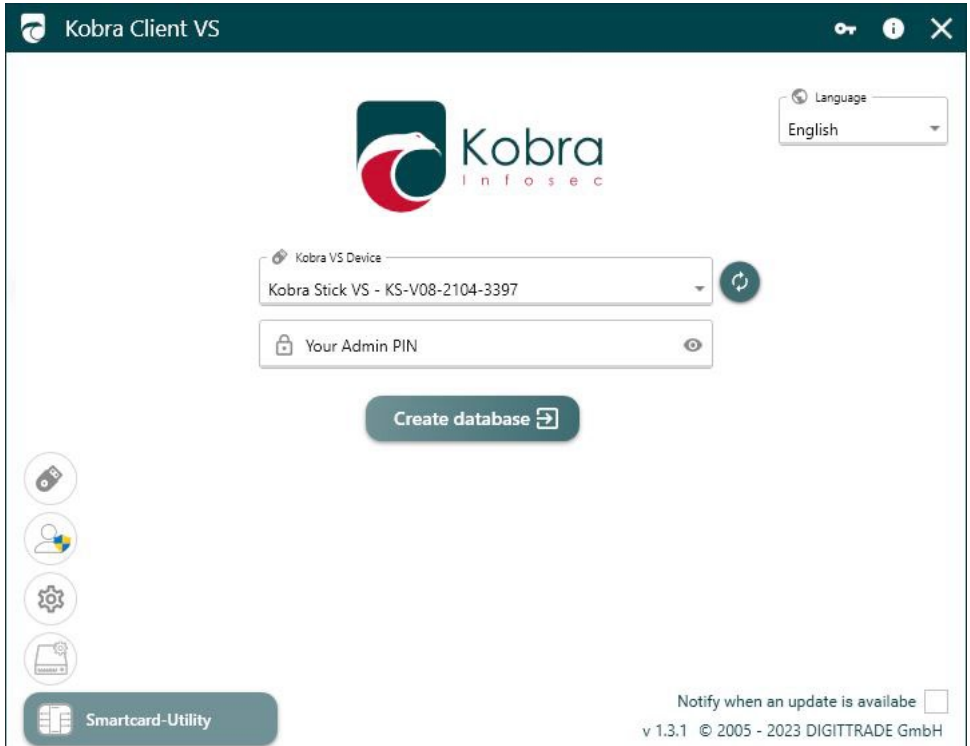
Connect a Kobra VS storage device to the host system. The device list updates automatically and displays the name of the Kobra VS storage device and the serial number.



If this is not the case, click on the „Refresh“ icon. If you have connected several Kobra VS storage devices, you can select in the device list which of these storage devices you want to use to log in.

Enter the Admin-PIN of the VS storage device selected in the device list and press the Login button. Once you have entered the Admin-PIN correctly, you will be taken to the Main window. If you enter the Admin-PIN incorrectly, you must wait 10 seconds before you can start a new login attempt.

## 5.2 Regular start of the software (device login)

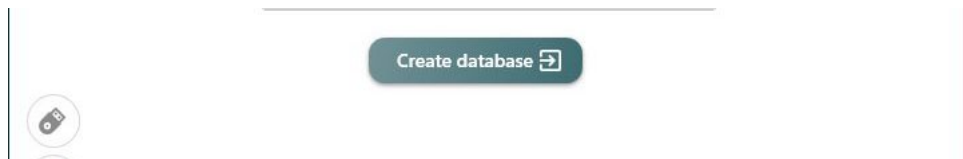


Execute the „Kobra Client VS.msi“. After the Login window has opened, select your VS storage device connected to the host system in the „Kobra VS Device“ tab. Enter your Admin-PIN of the VS storage device.

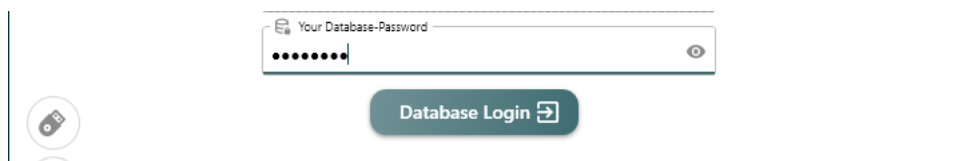
Change and configure your settings in the Main window as usual.

## 5.3 Regular start of the software (Database login)

Execute the „Kobra Client VS.msi“. After the Login window has opened, enter your database password in the „Your database password“ tab.



Click on „Database Login“.

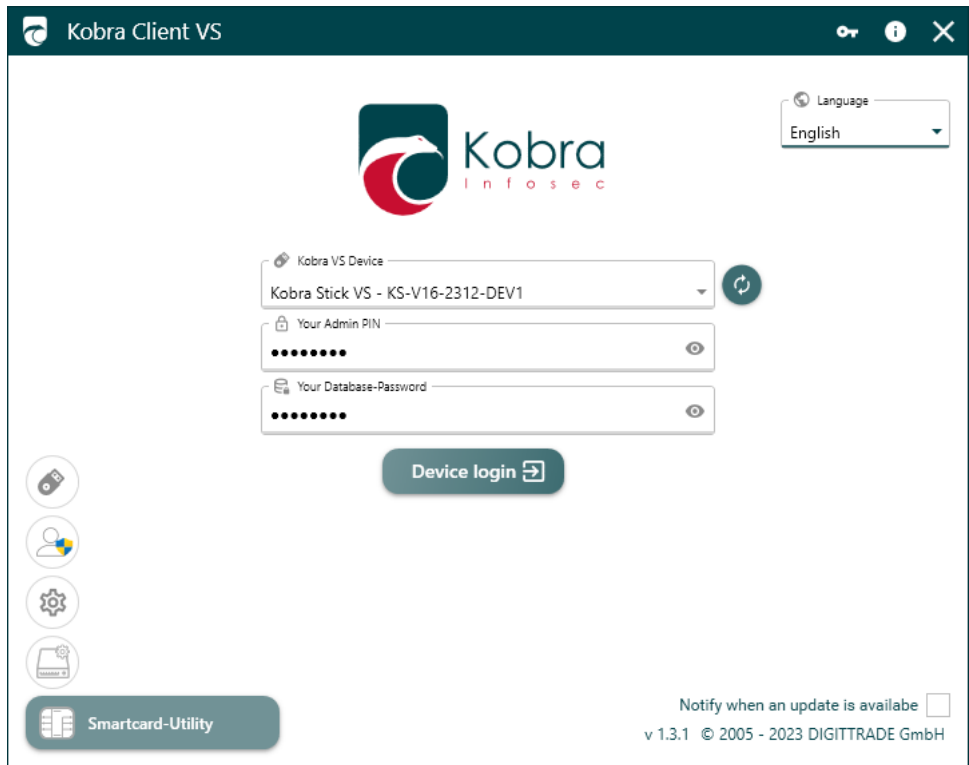


**Note:**

*The database login only works if you have already created a database; you can find out how to create a database in chapter 11.1 Creating a database.*



## 5.4 Regular start of the software (Database & Device login)



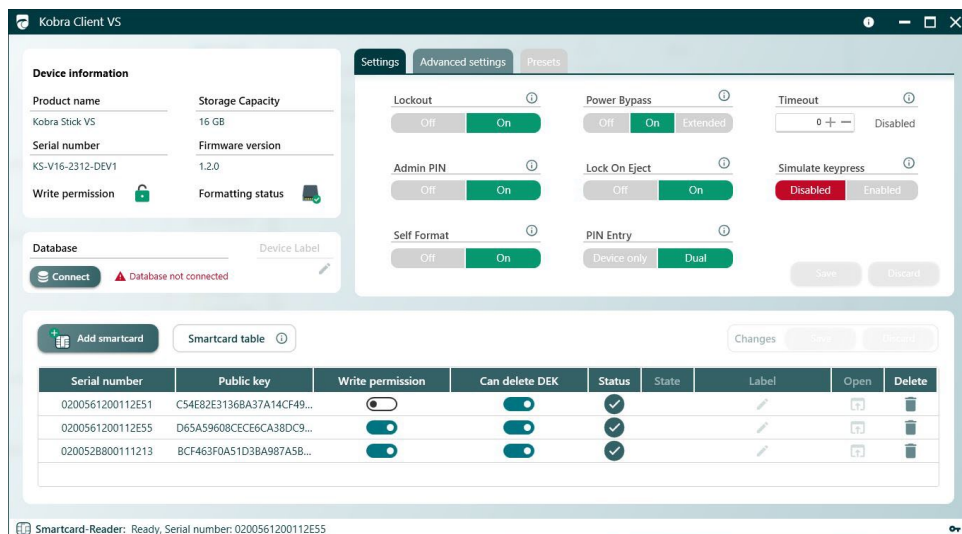
Execute the „Kobra Client VS.msi“. After the Login window has opened, select your VS storage device connected to the host system in the „Kobra VS Device“ tab. Enter your Admin-PIN of the VS storage device and your database password.

Change and configure your settings in the Main window as usual.

### Note:

*The database login only works if you have already created a database; you can find out how to create a database in 11.1 Creating a database.*

## 6. The Main window



The Main window is divided into several tabs, which allow a better overview and editing of the Kobra VS storage devices and smartcards. The following tabs are located in the Main window:

- Device information
- Device settings
- Advanced settings
- Smartcard
- Smartcard table

You will find all relevant information about your Kobra VS storage device in the **Device information** tab on the left: the product name, the firmware version, the serial number, the write authorisation (can be set with the Kobra Client) and the formatting status.

In the **Settings**, you have the option of configuring the VS storage device according to your wishes.

- Lockout can be switched on and off: If the lockout function is activated, the VS storage device switches to wait mode as soon as the smartcard is removed from the smartcard slot.
- Timeout: You can set after how many minutes of inactivity the VS storage device should switch to wait mode. You also have the option of completely deactivating the timeout function.

- Switch Admin-PIN on and off: You can specify whether the Admin-PIN can be entered using the VS storage device's keyboard.
- Change drive type: You can specify whether the VS storage device should be a local storage device or a removable storage device.
- Save: All changes to the settings are applied.
- Cancel: All changes to the settings are cancelled.

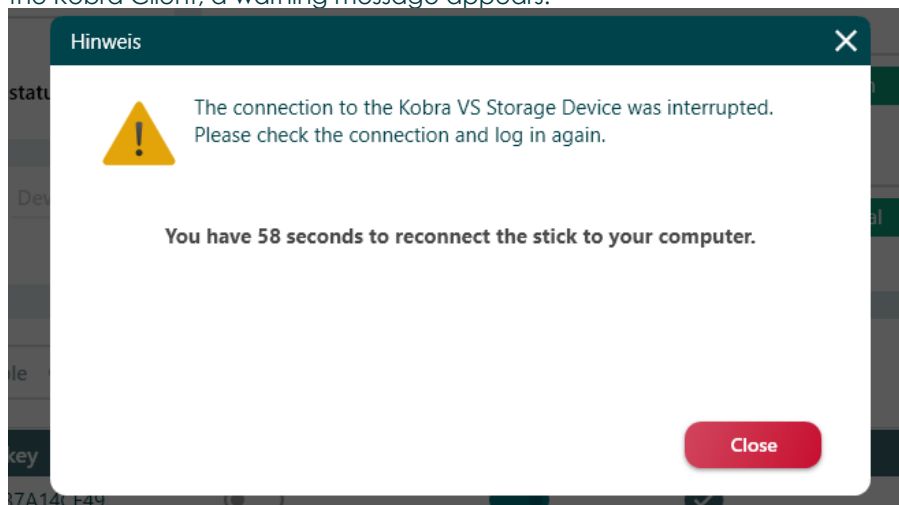
In the **Advanced settings**, you have the option of editing the update key and the Admin-PIN. You can also export the settings (optionally with smartcard table) and import settings that you have previously made and exported.

New smartcards can be read and entered in the **Smartcard table** using a Kobra VS storage device or smartcard reader. New smartcards, including serial numbers and crypto keys, can also be added manually. You can manage write authorisations for the smartcards. It is also possible to delete individual smartcards and the entire smartcard table.

You have the option of exporting or importing the smartcard table.

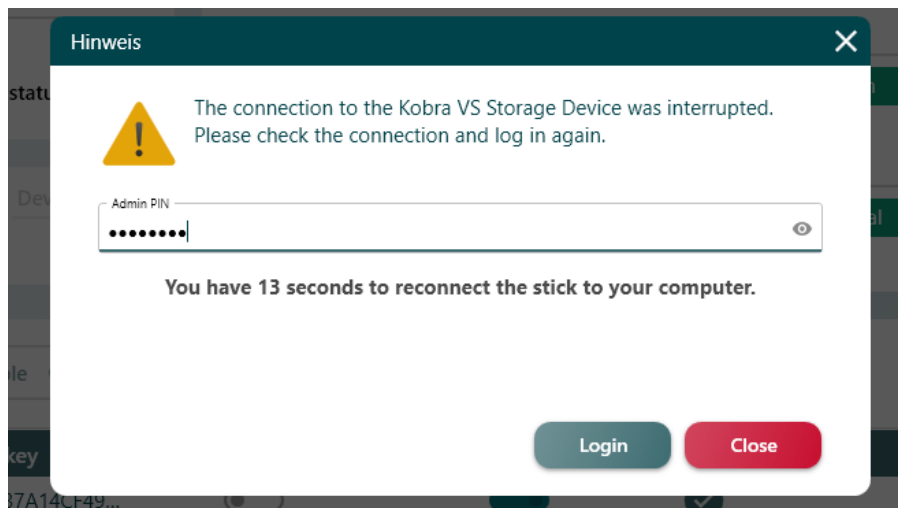
## 6.1 Kobra VS storage device is disconnected from the host system

If the Kobra VS storage device is disconnected from the host system while editing in the Kobra Client, a warning message appears:



Further configuration of the Kobra VS storage device is only possible again as soon as you reconnect it to the host system within one minute.

After reconnecting the Kobra VS storage device to the host system, you will be prompted to enter the Admin-PIN.

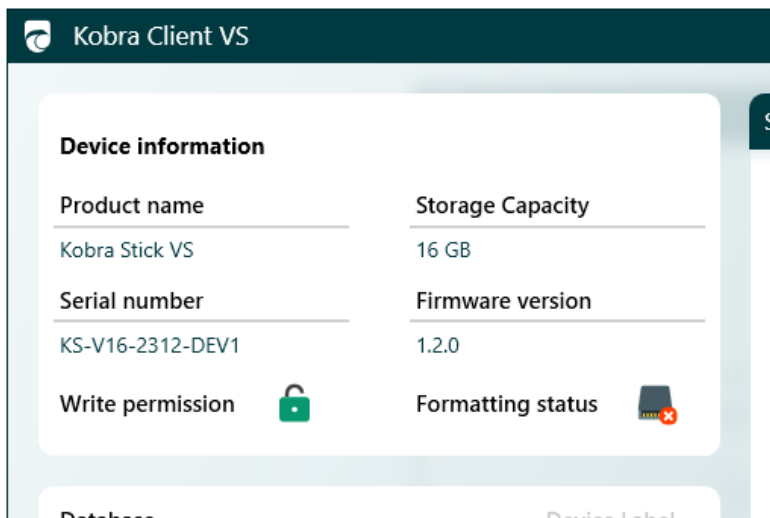


After successful entry, click on „Login“ to return to the Main window and continue with the planned configurations and changes.

**Note:**

*All unsaved configurations must be made again if the connection to the Kobra VS storage device is interrupted.*

## 6.2 Device information



You can view the following information in the Device information:

### Product name:

Shows which Kobra VS storage device is currently connected to the host system and is being processed in the Kobra Client.

### Firmware version:


Shows which version of the firmware is installed on the Kobra VS storage device chipset.

### Serial number:


Indicates the serial number of the Kobra VS storage device (can also be found on the back of the Kobra VS storage device in the form of a QR code and plain text).

### Write permission:

Indicates whether the write protection of the Kobra VS storage device is active.

Write permission 


The green lock indicates that the Kobra VS storage device can be written to. Data can be read, edited, moved and copied.

Write permission 


The red lock indicates that no data can be written to the Kobra VS storage device. However, the data is still live and can be copied to the host system, but not moved. Files cannot be edited on the Kobra VS storage device.

### Formatting status:

Indicates whether the Kobra VS storage device has already been formatted.

Formatting status 

The green tick indicates that the Kobra VS storage device is already formatted.

Formatting status 

The red cross indicates that the Kobra VS storage device is not yet formatted. After connecting the Kobra VS storage device to the host system and logging in as a user, the Kobra VS storage device is formatted automatically. The main button flashes blue. This may take a few minutes. After formatting, the main button lights up green (if write protection is deactivated) or purple (if write protection is activated).

## 7. Settings

### 7.1 Switching the lockout function on/off

The Lock-Out setting determines whether the smartcard (PKI card) must remain in the Kobra VS storage device after authentication or can be removed. When Lock-Out mode is switched on, access to the data is immediately interrupted after removing the smartcard (PKI card) from the Kobra VS storage device.

To manage the lockout mode, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) In the settings in the "Lockout" input area, click on the "Off" or "On" field.

The active "On" field lights up green



and the active "Off" field lights up red.



The inactive field is always grey.

- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



## 7.2 Manage Power Bypass

This option is intended for use scenarios such as „Secure Mobile Workstation“, in which a bootable operating system is installed directly on the Kobra VS storage device. Depending on the host system (PC/laptop/system), the USB ports behave differently during the boot phase.

„Off“: The Kobra VS storage device locks itself immediately as soon as there is a power interruption. This setting should always be selected unless the application scenario requires a different setting.

„On“: The Kobra VS storage device tolerates any number of power interruptions of up to 10 seconds each within the first 30 seconds after authentication. Activate this mode if the Kobra VS storage device locks up during the boot process on your host system (main button changes from green to white and the operating system is not loaded).

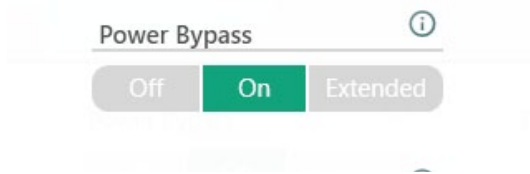
„Extended“: The Kobra VS storage device will tolerate any number of power interruptions of up to 10 seconds each, regardless of the elapsed time since authentication. This function should only be used in deployment scenarios where the host system is restarted several times or a continuous power supply is not guaranteed by the host system.

To manage the power override, proceed as follows:

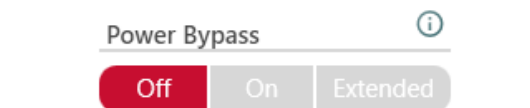
- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.

Click on the “Off”, “On” or “Extended” field in the “Power Bypass” input area in the settings.

The active “On” field lights up green,



the active “Off” field lights up red.





and the active "Extended" field lights up yellow.



The inactive fields are always grey.

- 4) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



## 7.3 Set Timeout in minutes

The Timeout setting determines after how many minutes the unlocked Kobra VS storage device is automatically locked if no read or write access is made to it within the specified time. The possible Timeout time is between 1 and 30 minutes. To deactivate the Timeout function, 0 minutes must be selected.

To manage the Timeout function, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Enter a number from 0 to 30 in the "Timeout" input field in the settings. You can also use the "+" and "-" characters. You can also use the arrow keys on the computer keyboard and the mouse wheel to enter the Timeout time.



- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.

**Note:**

If programmes or the operating system automatically read or write to the Kobra VS storage device at regular intervals, the Timeout function may lose its effect.

## 7.4 Switch Admin-PIN on/off

The Admin-PIN setting determines whether the Admin-PIN can be entered via the keyboard of the Kobra VS storage device. Entering the Admin-PIN via the Kobra Client VS is not affected by this setting.

To switch the Admin-PIN on or off, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on „Login“. The software switches to the main menu.
- 4) Click „On“ or „Off“ for „Admin-PIN“ in the settings.

The active „On“ field lights up green



and the active „Off“ field lights up red.



- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



## 7.5 Switching Lock On Eject on/off

This option is intended for use scenarios such as „Secure Mobile Workstation“, in which a bootable operating system is installed directly on the Kobra VS storage device. Depending on the host system (PC/laptop/system), the USB ports behave differently during the boot phase.

„On“: The Kobra VS storage device automatically locks itself as soon as it is „ejected“ or „safely removed“ from the host system, this is the default configuration and should only be changed if the usage scenario requires it,

„Off“: The Kobra VS storage device ignores the „eject“ and „safely remove“ messages from the host system and remains in the unlocked state. Select this option if the Kobra VS storage device locks itself to your host system during the boot process (main button changes from green to white and the operating system will not load).

To switch Lock On on/off when ejecting, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on „Login“. The software switches to the main menu.
- 4) In the settings, click „On“ or „Off“ for „Lock On Eject“.

The active „On“ field lights up green



and the active „Off“ field lights up red.



- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



## 7.6 Activate / deactivate keypress simulation

If this option is activated, a software-based keypress can be simulated on the Kobra VS storage device via the API.

To enable or disable the „Simulate keypress“ function, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on „Login“. The software switches to the main menu.
- 4) In the settings, click on „Deactivated“ or „Activated“ under „Simulate keypress“.

The active „Enabled“ field lights up green



and the active „Disabled“ field lights up red.



- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



## 7.7 Switch Self format on/off

After resetting the DEK (Data Encryption Key), the device performs automatic formatting by default. Deactivating this option will prevent the device from formatting itself, which means that the user must then format the device manually.

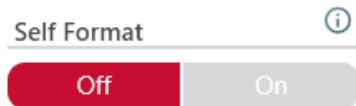
To switch self-formatting on or off, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on „Login“. The software switches to the main menu.
- 4) In the settings, click „On“ or „Off“ for self formatting.

The active „On“ field lights up green



and the active „Off“ field lights up red.



- 5) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



### Note:

Please note that the Kobra Client software must be switched off as soon as you format the VS storage device.

## 7.8 Manage PIN Entry on the VS storage device

If the Kobra VS storage device is used as a smartcard reader on the PC, the smartcard may also have to be authenticated via the PC. This option defines whether the „PIN entry“ may only be made via the keyboard of the Kobra VS storage device („Device only“) or alternatively directly on the PC, e.g. via an input field („Dual“). As a rule, the „Device only“ option is the safer option. „Dual“ should only be used if there is a specific need for a special application scenario.

To manage the PIN entry, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.
- 4) Click on “Dual” or “Device only” under “PIN Entry” in the settings.

The active „Dual“ field lights up green



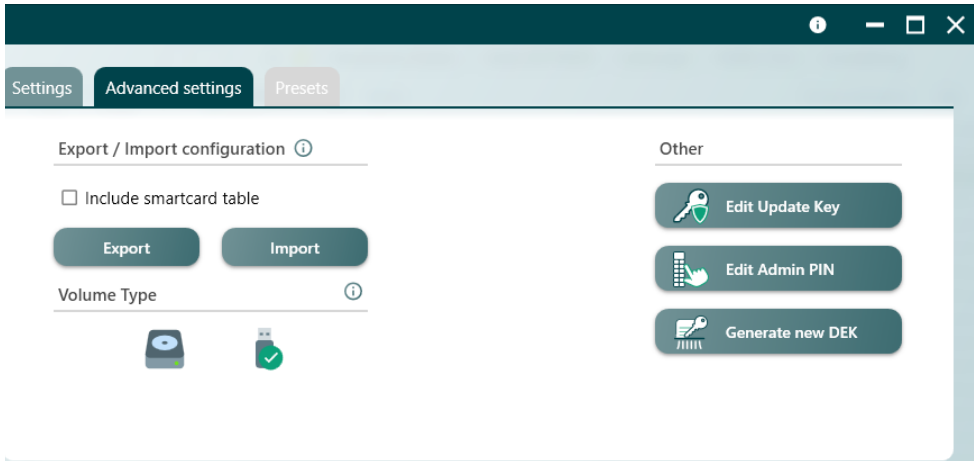
and the active „Device only“ field lights up red.



- 5) Then click on “Save” so that the changes you have made are transferred to the Kobra VS storage device.



## 8. Advanced settings



In the advanced settings, you have the option of editing the update key and the Admin-PIN.

You can export the settings (optionally with smartcard table).  
You can also import the settings that you have previously made and exported.

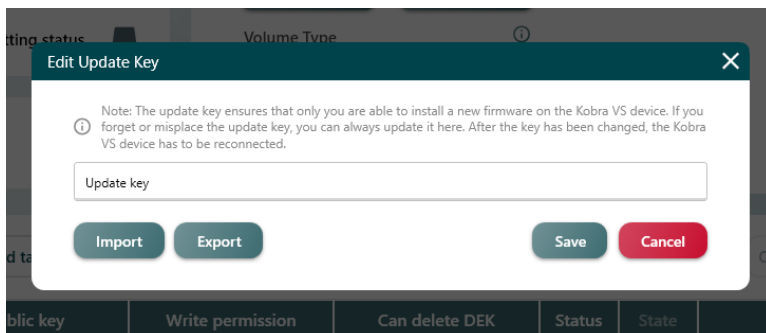
### 8.1 Edit update key

Before executing an update, the administrator must store a 256-bit (32 bytes) update key on the Kobra VS storage device. This task can also be done in advance when setting up the Kobra VS storage device for the first time. To do this, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Click on the "Edit update key" field.



- 5) In the "Edit update key" window, you can either enter a 256-bit update key manually in hexadecimal or load it from a binary file by clicking on the "Import update key" button



- 6) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.

**Note:**

*The update key ensures that only you are able to install new firmware on the Kobra VS storage device. If you forget or misplace the update key, you can assign a new update key at any time as described above.*

## 8.2 Edit Admin-PIN

To change the Admin-PIN, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Click on "Edit Admin-PIN".



Enter the current Admin-PIN.



**Edit Admin PIN** ✕

ⓘ Note: Using non-numeric characters as the admin PIN is possible (ASCII only). Doing this will cause the admin-login functionality to be only possible with Kobra Client and not directly on the Kobra VS device.

Current Admin PIN

New Admin PIN

Confirm new Admin PIN

Save Cancel

- 5) Enter the new Admin-PIN twice and click on “Save change”.

**Edit Admin PIN** ✕

ⓘ Note: Using non-numeric characters as the admin PIN is possible (ASCII only). Doing this will cause the admin-login functionality to be only possible with Kobra Client and not directly on the Kobra VS device.

Current Admin PIN

New Admin PIN

Confirm new Admin PIN

Save Cancel

- 6) Once the PIN has been successfully changed, the message “The change was successful” appears. If incorrect entries are made, a corresponding error message appears.

**Note:**

*The use of non-numeric characters as Admin-PIN is possible (ASCII only). However, this means that the admin login functionality is only possible via the Kobra Client and not directly on the Kobra VS storage device.*

## 8.3 Import and export configuration

You can export the configurations made in the advanced settings in order to import them at a later date and use them for other Kobra VS storage devices, for example. You also have the option of exporting the smartcard table and importing it again later.

Export / Import configuration ⓘ

Include smartcard table

Export

Import

To export the advanced settings, click on „Export“ in the „Export / Import configuration“ section of the „Advanced settings“ tab. To export the smartcard table as well, click in the box next to „With smartcard table“.

Export / Import configuration ⓘ

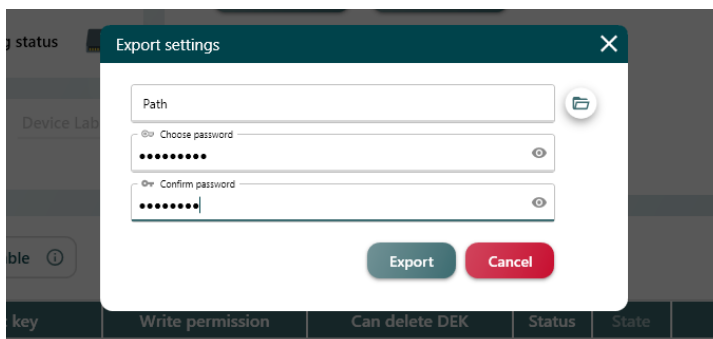
Include smartcard table

Export

Import

Volume Type ⓘ

Select the path under which the configuration file is to be saved. To do this, press „Save as“. Then enter the password you wish to use and repeat it. Then press „Export“.



To import the advanced settings, click on „Import“ in the „Export / Import configuration“ section of the „Advanced settings“ tab. To import the smartcard table as well, click in the box next to „With smartcard table“.

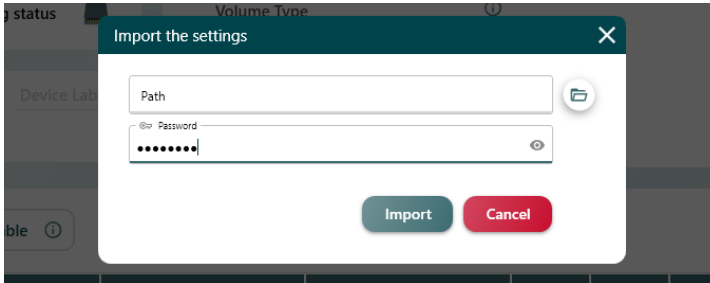
## Export / Import configuration ⓘ

 Include smartcard table

Export

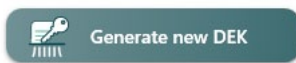
Import

Select the path from which the configuration file is to be imported. To do this, click on „Import from“. Then enter the password that was set when exporting. Then press „Import“.

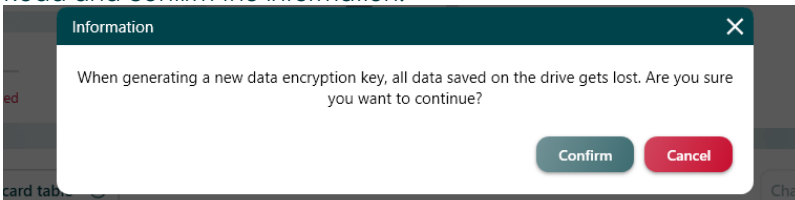


## 8.4 Generate new DEK

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.
- 4) Click on “New DEK”.



- 5) Read and confirm the information:



**Note:**

Please note that the Kobra Client software must be switched off after generating a new DEK as soon as you format the VS storage device.

**Note:**

Please note that when creating a new DEK, all data previously stored on the Kobra VS storage device will be irrevocably destroyed.

## 8.5 Change Volume Type

You have the option of setting the Kobra VS storage device as a local or removable storage device.

The Kobra Stick VS is usually recognised in Windows as an external storage device, i.e. as a regular USB stick. The Kobra Drive VS, on the other hand, is often recognised by Windows operating systems as a local storage device, i.e. as a regular storage device.

When installing a bootable operating system, it can happen that the operating system rejects the installation on a removable disc. In this case, you can configure the Kobra VS storage device as a „local storage device“.

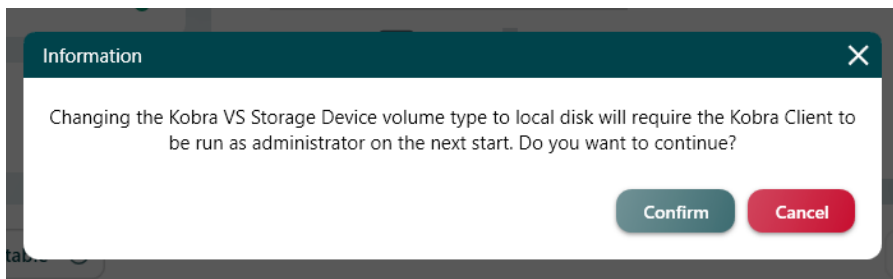
If you use the Kobra VS storage device in „Local storage device“ mode, you must start the Kobra Client as an administrator.

In the Kobra Client you have the option to change the drive type whenever necessary. **To do this, proceed as follows:**

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on „Login“. The software switches to the main menu.
- 4) Select the hard disc icon in the advanced settings



- 5) and confirm the following information window by clicking on “Ok”.



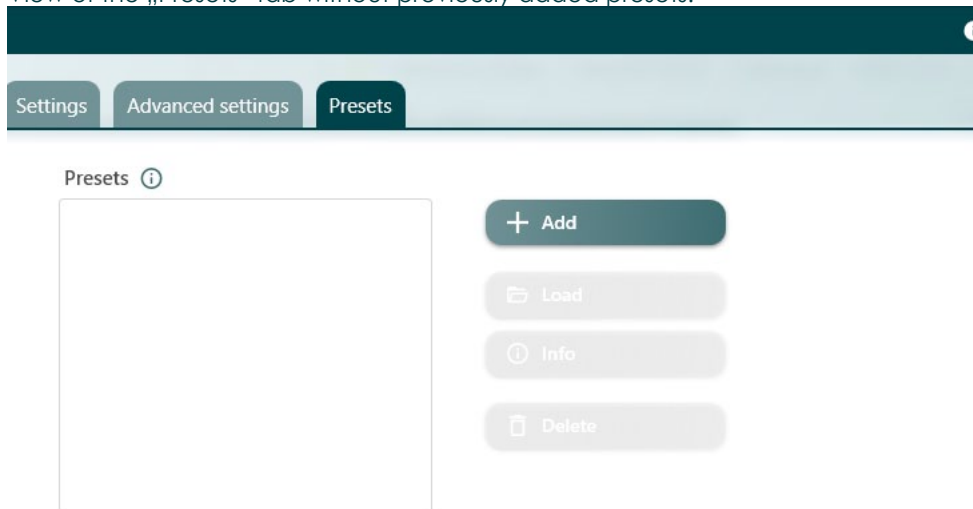
- 6) Then click on "Save" so that the changes you have made are transferred to the Kobra VS storage device.



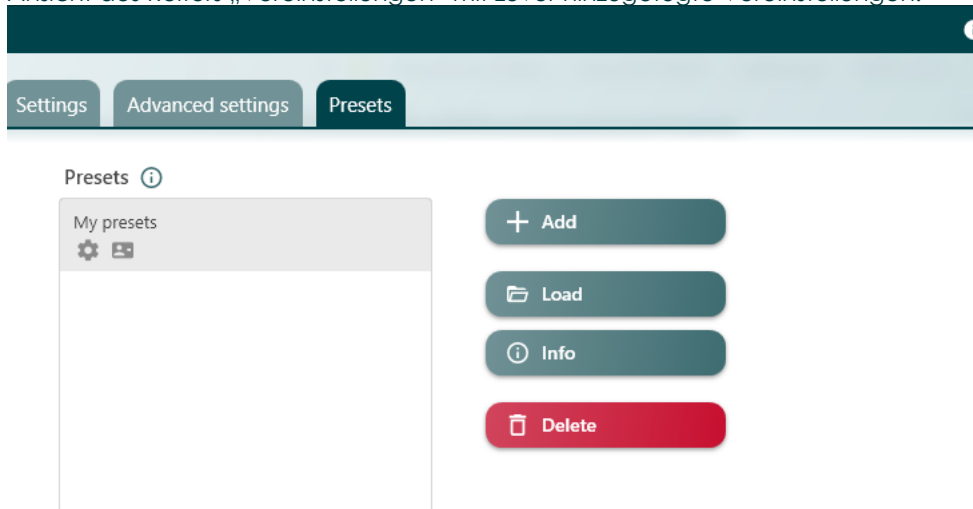
## 9. Presets

Presets offer the option of saving the configuration of a Kobra VS storage device and conveniently applying it to other Kobra VS storage devices. A preset can contain the main settings and/or the smartcard table. The advanced settings are not taken over by the presets.

View of the „Presets“ tab without previously added presets:



Ansicht des Reiters „Voreinstellungen“ mit zuvor hinzugefügte Voreinstellungen:



## 9.1 Add presets

Adding the presets saves the current configuration of the logged-in Kobra VS storage device as a new preset.

To do this, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Click on "Add" in the pre-settings.



- 5) Give your presettings a name in the "Label" field.

Add preset

Label

- 6) Select whether both the settings and the smartcard table should be added.

Settings

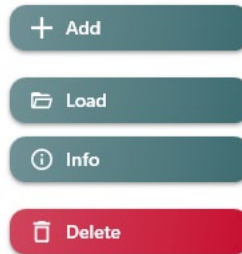
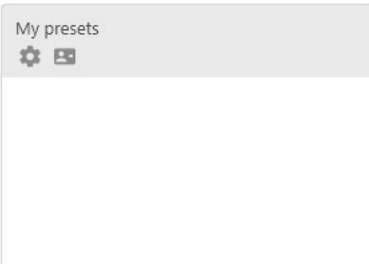
Smartcard table

- 7) Then click on "Save" to save the default settings.



You then have your saved presettings in the main view of the „Presets“ tab, which you can either load or delete.

Presets ⓘ

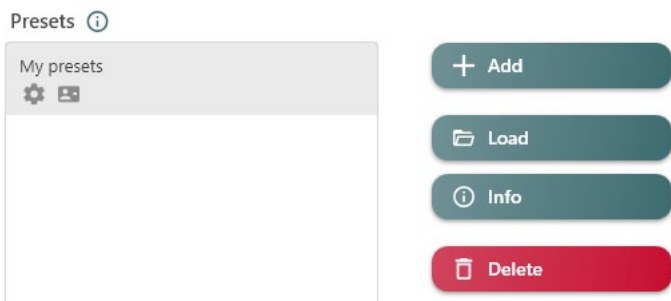


## 9.2 Load presets

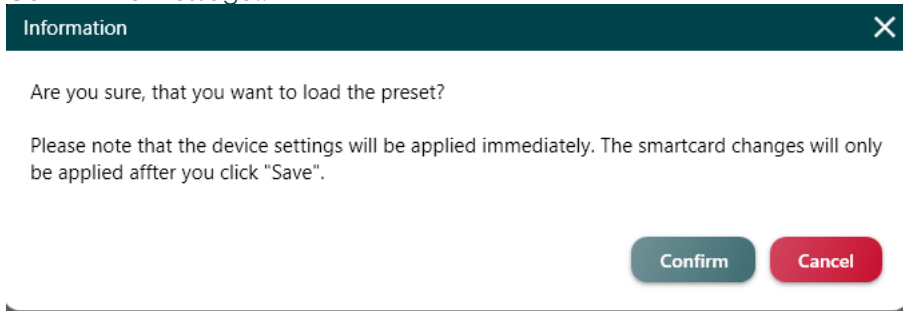
Loading presets applies the presets to the currently logged in VS storage device.

To do this, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) In the "Presets" tab on the left, select the presets you want to load and click "Load" on the right.



- 5) Confirm the message:.



Your presets are now loaded.

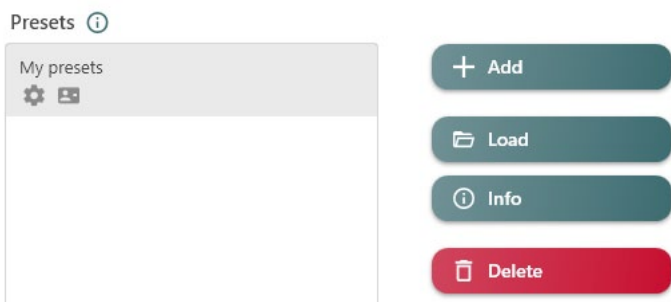


## 9.3 Information about presets

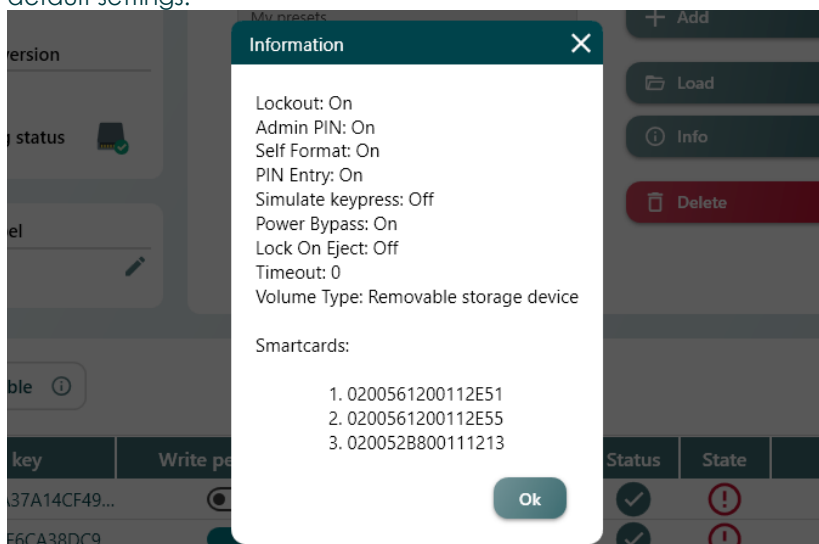
The information about saved presets shows all settings and smartcards that are saved in the selected preset.

To do this, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) In the "Preferences" tab on the left, select the preferences about which you would like to receive information and click on "Info" on the right.



- 5) In the window that now opens, you will see all the information about the default settings:

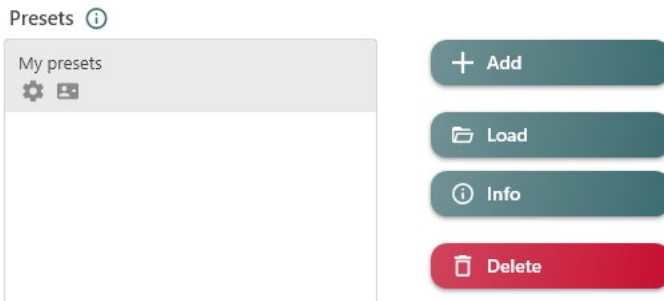


## 9.4 Delete default settings

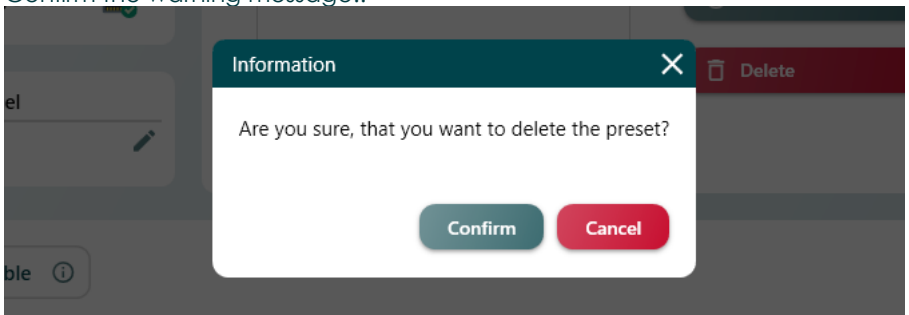
You have the option of deleting previously saved presets.

To do this, proceed as follows:

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) In the "Preferences" tab on the left, select the preferences you want to delete and click "Delete" on the right.



- 5) Confirm the warning message:.



## 10. Smartcard table

The smartcard table contains information about the DIGITRADE smartcards or PKI cards that are authorised for access to the Kobra VS storage device. The administrator can enter up to 10 DIGITRADE smartcards for the Kobra Drive VS and up to 6 DIGITRADE smartcards for the Kobra Stick VS in a smartcard table using the Kobra Client VS software. The administrator can also specify whether the respective user is only authorised to read or also to write.

The smartcard table is loaded from the Kobra VS storage device into the main menu of the Kobra Client VS software after the administrator has been successfully authenticated. All already integrated smartcards are labelled „added“ in the „Status“ field. The newly entered smartcards or those imported from an external smartcard table are initially labelled „new“.

To enter a single DIGITRADE smartcard (PKI card), click on the „Add smartcard“ button. The „Smartcard“ window appears. Enter the serial number and the public key manually in this window or insert the smartcard to be entered into the Kobra VS storage device and then click on the „Read smartcard“ button. The required information will then appear automatically in the „Smartcard“ window. Click on „Save“ to transfer this information to the smartcard table. In the next step, further DIGITRADE smartcards (PKI cards) can be added to the smartcard table. The administrator can also assign write authorisation for each individual smartcard and remove (delete) the smartcards that are not required from the smartcard table.

The administrator also has the option of importing, exporting or deleting the smartcard table with one or more DIGITRADE smartcards (PKI cards) at the same time. The corresponding buttons are located in the „Smartcard table“ area.

After clicking on the „Export“ button, the Kobra Client VS software generates a file with the ID, serial number, public key and read/write authorisations of all smartcards entered in the smartcard table. The saved smartcard tables can then be used for importing to other Kobra VS storage devices.

When you click on the „Delete“ button, a message appears stating that the entire smartcard table will be deleted and consequently all saved data will be irrevocably destroyed. At this point, the process can be interrupted by clicking on „Cancel“. If the administrator clicks on „OK“ instead, all entries are removed from the smartcard table.

All changes in the smartcard table are initially only to be regarded as visual changes in the Kobra Client VS software and can still be cancelled by clicking on the „Cancel“ button. In this case, only the entries already integrated in the Kobra VS storage device are displayed in the smartcard table. All these entries have the corresponding status „Active“. At this point, the changes can be made from the beginning.

To accept the prepared smartcard entries, click on the „Save“ button. The changes are applied immediately if the actual smartcard table of the Kobra VS storage device does not yet have any smartcard entries or if the change to be transmitted involves deleting the entire smartcard table.

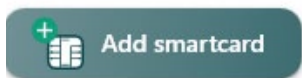
In other cases, you will be prompted to insert an already authorised smartcard and enter the corresponding User-PIN. Once this request has been successfully fulfilled, the change is transferred to the Kobra VS storage device and a message appears stating that the change was successful. If an error message appears, the „Save changes“ process can be repeated.

**Note:**

*Please note that the Kobra Client software must be switched off after making changes to the smartcard table of a VS storage device as soon as you format the VS storage device.*

## 10.1 Read and Add smartcard

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.
- 4) Insert a smartcard into the Kobra VS storage device.
- 5) In the lower smartcard table tab, click on the symbol to the right of “Add smartcard”



- 6) A new window opens.
- 7) After a few seconds, the smartcard inserted in the Kobra VS storage device will be recognised automatically. If this is not the case, click on Read smartcard below.

**Note:**

If the smartcard cannot be read automatically, make sure that the smartcard is inserted the right way round in the Kobra VS storage device and that there is contact with the smartcard reader.

- 8) All information on the smartcard read is entered automatically. You can still make manual changes if necessary.
- 9) If you want to activate write protection on the smartcard, click in the box so that a tick appears.
- 10)
- 11) You can export the settings you have made.
- 12) Click on "Save" to finalise the addition of the smartcard.



- 13) Click on "Save" in the smartcard table if you do not want to add any more smartcards and no further changes are to be made.

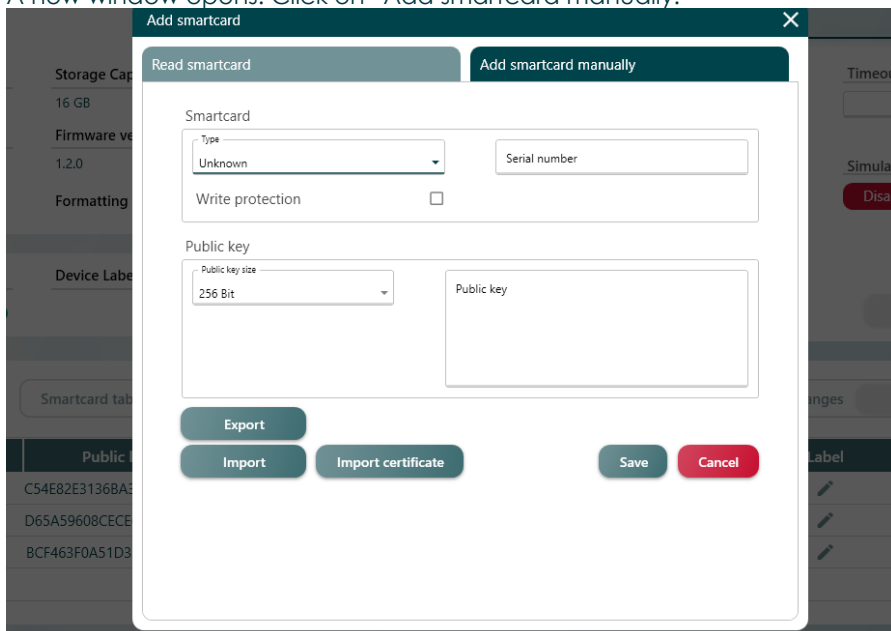


## 10.2 Add smartcard manually

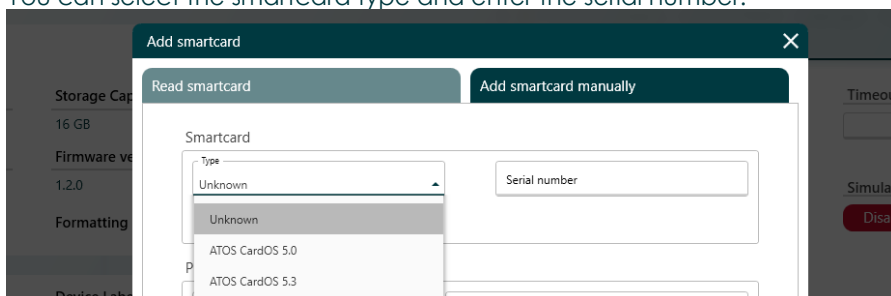
- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) In the lower smartcard table tab, click on the symbol to the right of "Add smartcard"



- 5) A new window opens. Click on "Add smartcard manually."



You can select the smartcard type and enter the serial number.



If you want to activate write protection on the smartcard, click in the box so that a tick appears.

ATOS CardOS 5.3

Write protection

Public key

- 6) You can determine the size of the public key. 4096 bits stands for the highest security level. We recommend using a random generator for the public key and not entering it manually.

Public key

Public key size: 256 Bit

Public key

Export

Import Import certificate Save Cancel

- 7) You can export the settings you have made. This gives you the option of importing smartcards that have already been registered and exported.
- 8) If compatible smartcards (e.g. PKI) are already in use, they can be imported by clicking on "Import certificate".
- 9) Click on "Save" to finalise the addition of the smartcard.

Read smartcard Export Save Cancel

- 10) Click on "Save" in the smartcard table if you do not want to add any more smartcards and no further changes are to be made.

Changes Save Discard

## 10.3 Smartcard table: Deactivate / activate write authorisation

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Select a smartcard in the smartcard table.
- 5) Click on the "Lever" icon for the selected smartcard under Write authorisation to enable / disable write authorisation.



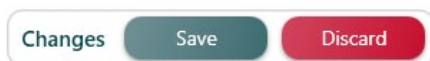
A "pencil" symbol is displayed in the "Status" column. This means that write authorisation will be deactivated after the smartcard table has been saved.

Write permission	Can delete DEK	Status	State
<input type="checkbox"/>	<input type="checkbox"/>		

After saving the smartcard table, there is a tick in the status column if write authorisation is deactivated.

Write permission	Can delete DEK	Status	State
<input type="checkbox"/>	<input type="checkbox"/>		

- 6) Klicken Sie in der Smartcard-Tabelle auf „Speichern“, wenn Sie die Einstellung der Schreibberechtigung abgeschlossen haben.





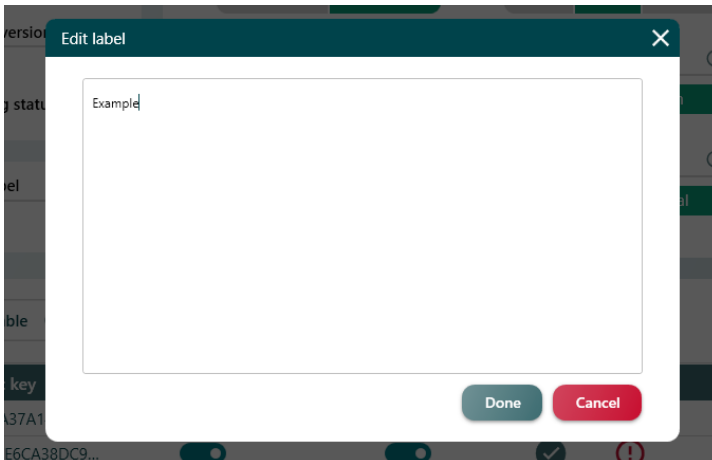
## 10.4 Label (Beschreibung) einer Smartcard ändern

You can give your smartcards a label. This is a brief description containing information that is important to you and which you can also use to find a smartcard in the Kobra Client VS search function.

1. Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Select a smartcard in the smartcard table.
- 5) Click on the "Pen" icon in the "Label" column of the selected smartcard to give the smartcard a description.



- 6) In the "Edit label" view, you can enter a description in the field for your smart card. Then click on "Done".

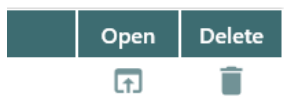


If a label has been assigned to the smartcard, it looks as follows in the table view:

State	Label	Open	Delete
	Example		

## 10.5 Open smartcard in database

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and the database password and click on "Login". The software switches to the main menu.
- 4) Select a smartcard from the smartcard table.
- 5) Click on the "Open window" icon in the "Open" column for the selected smartcard to access the database entry for the smartcard.







You will find the required information in the open database view of the smartcard:

The screenshot displays the 'Kobra Client VS - Database management' application window. On the left, a 'Smartcards' table lists several smartcards, with '0200561200112E51 Example' selected. The main area shows the details for this smartcard, including its serial number, public key, version, label, user PIN, and state. A 'History' panel on the right shows recent actions like 'Edited' and 'Added'. At the bottom, there are buttons for 'Save', 'Restore', 'Add to smartcard table', and 'Delete'.





0200561200112E51	
Serial number	0200561200112E51
Public key	C54E82E3136BA37A14CF49E576A0E26F2D...
Public key size	4096 Bit
Version	1.0
Label	Example
User PIN	<input type="text"/>
SO-PIN/PUK	<input type="text"/>
Smartcard type	Unknown
State	OK
Added	2023-12-20 15:24:49
Last modified	2023-12-20 16:40:02

## 10.6 Smartcard table: Delete smartcard

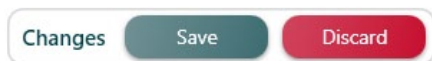
- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Select a smartcard in the smartcard table.
- 5) Click on the "Trash" icon in the "Delete" column for the selected smartcard.

	Open	Delete
		
		

A red "minus" symbol is displayed in the Status tab. This means that the smartcard has been deleted after saving the smartcard table.

DEK	Status	State
		
		

- 6) Click on "Save" in the smartcard table when you have finished setting the write authorisation.



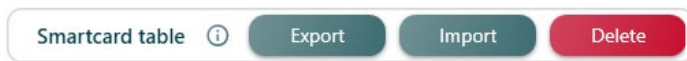
## 10.7 Smartcard-Tabelle importieren / exportieren

Export: The „Export“ function creates a file with the ID, serial number, public key and read/write authorisations of all smartcards listed in the table. This exported file can be saved and later used to import smart card tables to other compatible devices.

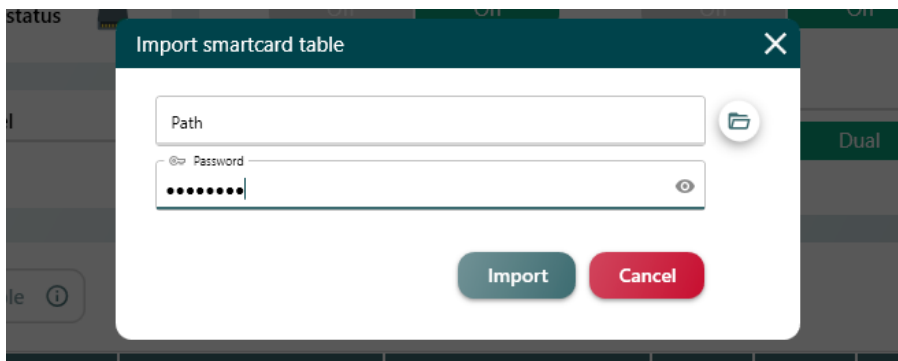
Import: The „Import“ function facilitates the inclusion of smartcards in the smartcard table. It works by importing smartcard data that was previously exported using the „Export“ function, thus enabling the seamless transfer of smartcard data between devices.

**To import a new smartcard table, proceed as follows:**

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.
- 4) Click on “Import” in the “Smartcard table” tab



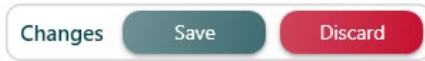
- 5) Click on “Import from” to select the path from which the smartcard table file is to be imported.



- 6) Then enter the password with which the smartcard table file was exported.
- 7) Click on “Import”.

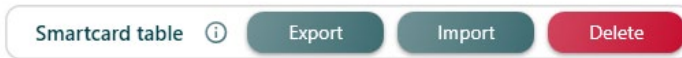


- 8) Click on "Save" in the smartcard table to apply the settings of the imported smartcard table.

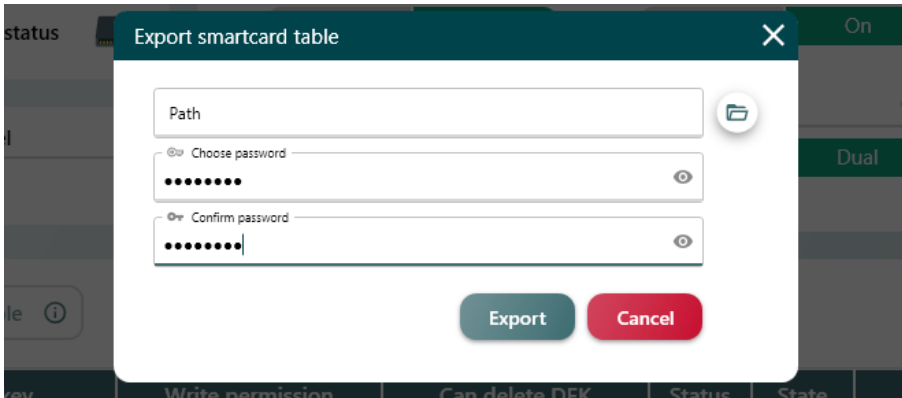


**To export a smartcard table, proceed as follows:**

- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on "Login". The software switches to the main menu.
- 4) Click on "Export" in the "Smartcard table" tab



- 5) Click on "Save as" to select the path under which the smartcard table file is exported.



- 6) Select a password and enter it.
- 7) Repeat the selected password.
- 8) Click on „Export“.



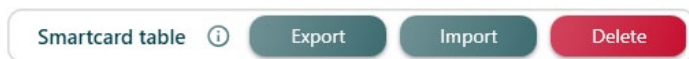
- 9) The window closes again and you are in the usual main view of the Kobra Client.

## 10.8 Delete smartcard table

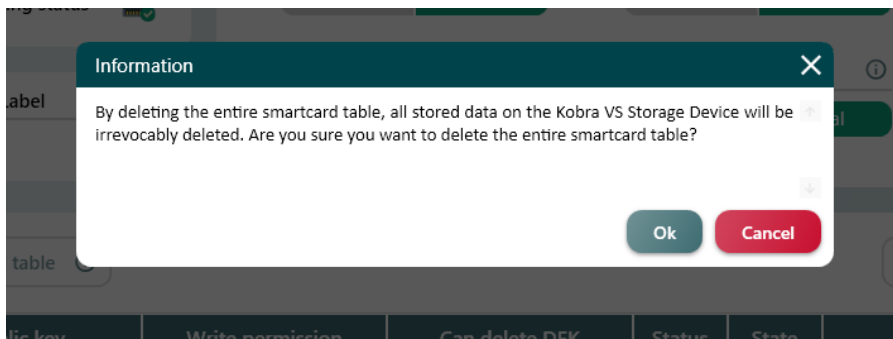
Delete: The „Delete“ function removes all data from the smartcard table, resulting in the irrevocable loss of all stored smartcard data.

**To delete the smartcard table anyway, carry out the following steps:**

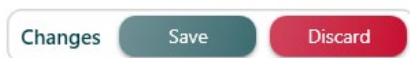
- 1) Start the Kobra Client VS software and connect the Kobra VS storage device to the PC.
- 2) Select the Kobra VS storage device in the Login window.
- 3) Enter the valid Admin-PIN and click on “Login”. The software switches to the main menu.
- 4) Click on “Delete” in the “Smartcard table” tab



- 5) A new window opens with the information that after deleting the smartcard table, all data stored on the Kobra Stick will no longer be accessible. Click on „OK“ to continue or on „Cancel“ to cancel the process.



- 6) Then click on “Save” in the smartcard table to finalise the deletion of the smartcard table.



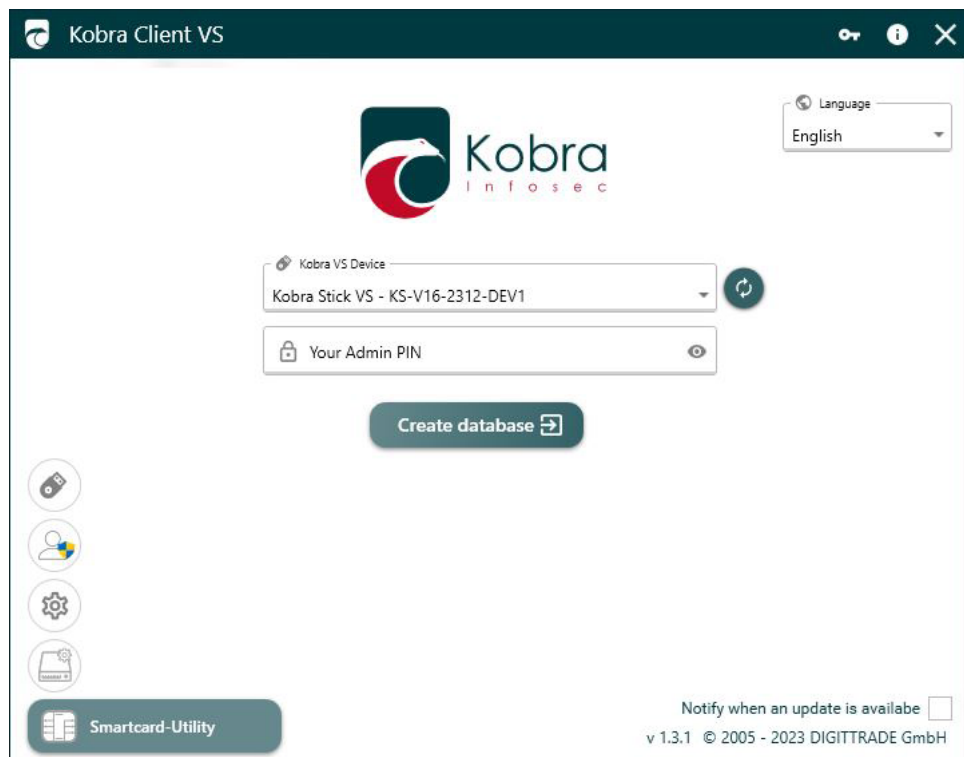
### Note:

*By deleting the entire smartcard table, all data stored on the Kobra VS storage device is no longer accessible.*

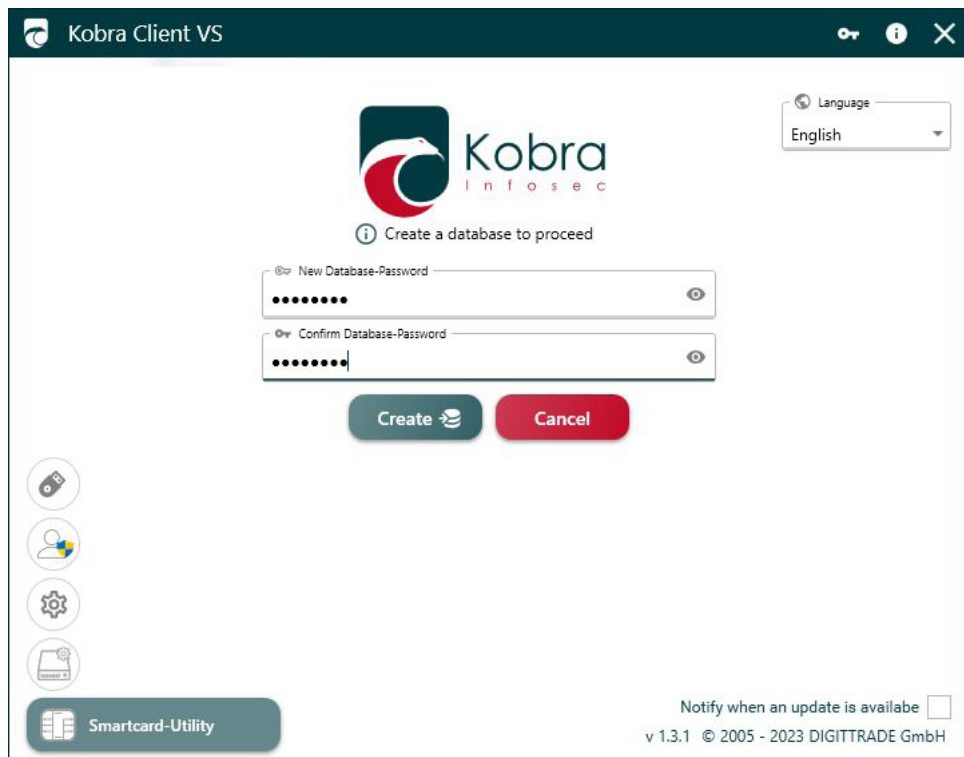
# 11. Database

## 11.1 Create database

To create a database, click on „Create database“ in the Login window.



Enter a future database password in the Login window and confirm it.



Then click on „Create“.



## 11.2 Open database in Login window

You can open the database immediately after starting the Kobra Client VS by entering your database password in the Login window. Further information can be found in Chapter 5.3: Database login.

Kobra Client VS

Language  
English

Kobra  
Infosec

Kobra VS Device  
Kobra Stick VS - KS-V16-2312-DEV1

Your Admin PIN

Your Database-Password

Database Login

Smartcard-Utility

Notify when an update is available

v 1.3.1 © 2005 - 2023 DIGITRADE GmbH

## 11.3 Open database in Main window

The screenshot shows the Kobra Client VS main window. On the left, under 'Device information', the 'Database' section has a 'Connect' button and a red warning icon with the text 'Database not connected'. Below this is an 'Add smartcard' button and a 'Smartcard table' dropdown. The main area shows various settings like 'Lockout', 'Power Bypass', 'Admin PIN', 'Lock On Eject', 'Self Format', and 'PIN Entry'. At the bottom, a status bar reads 'Smartcard-Reader: Ready, Serial number: 0200561200112E55'.

Serial number	Public key	Write permission	Can delete DEK	Status	State	Label	Open	Delete
0200561200112E51	C54E82E3136BA37A14CF49...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	✓				
0200561200112E55	D65A59608CECE6CA38DC9...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓				
020052B800111213	BCF463F0A51D3BA987ASB...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✓				

In the Main window, you have the option of connecting to your database under the device information.

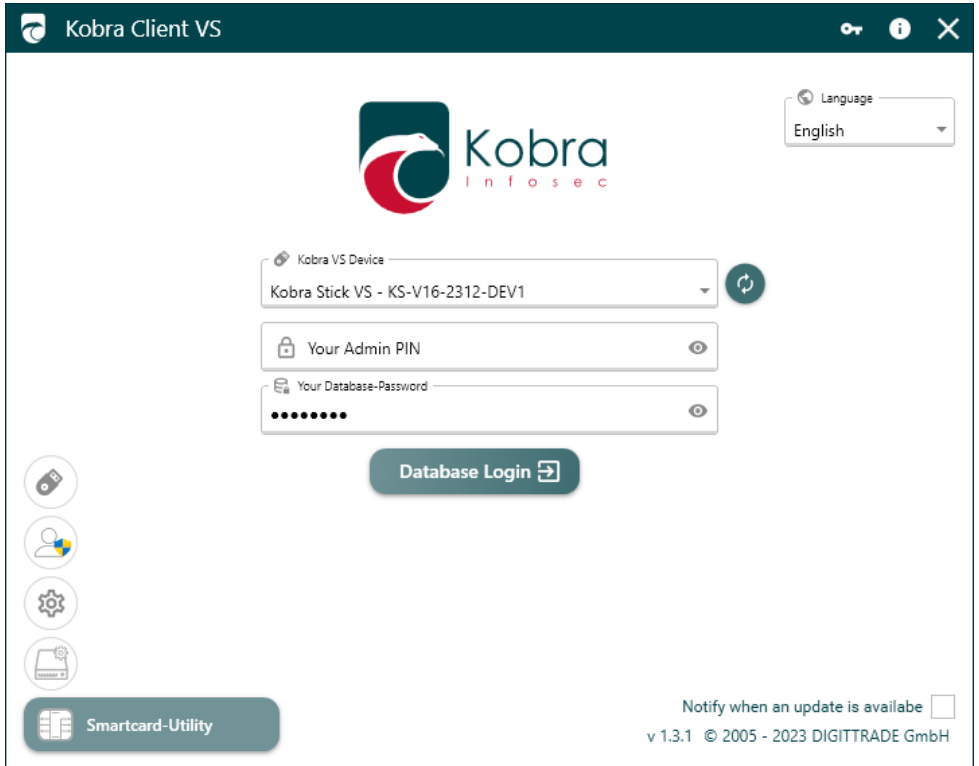
If you have entered your database password in the Login window directly after starting the Kobra Client VS, you can click on „Open“:

This close-up shows the 'Database' section with the 'Open' button highlighted in a dark blue color, indicating it is the active option. A green checkmark is visible to the right of the button.

If you have not entered your database password in the Login window directly after starting the Kobra Client VS, click on „Connect“:

This close-up shows the 'Database' section with the 'Connect' button highlighted in a dark blue color. A red warning icon and the text 'Database not connected' are visible to the right of the button.

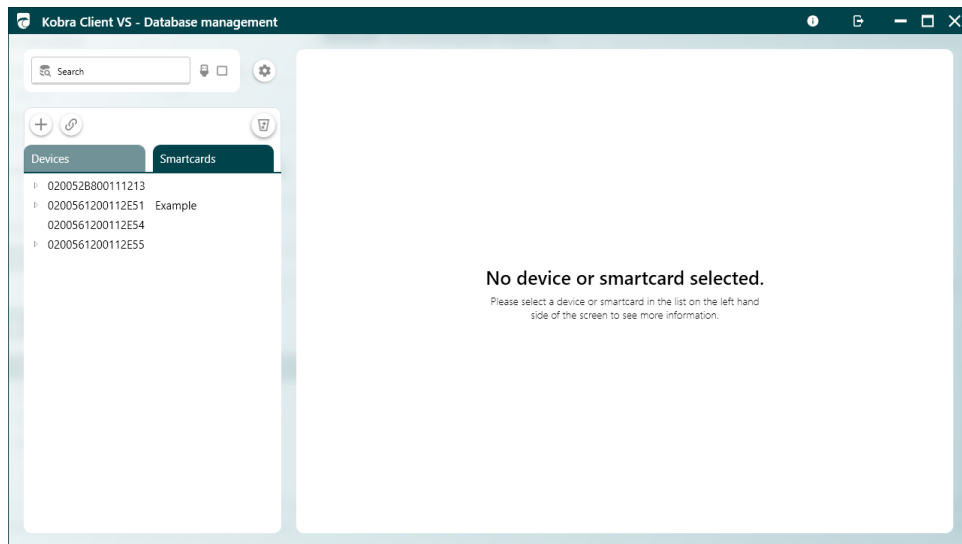
Enter your database password in the Login window that now opens again and click on confirm.



The database opens automatically in a new window. If this is not the case, click on open in the Main window to access the database view.



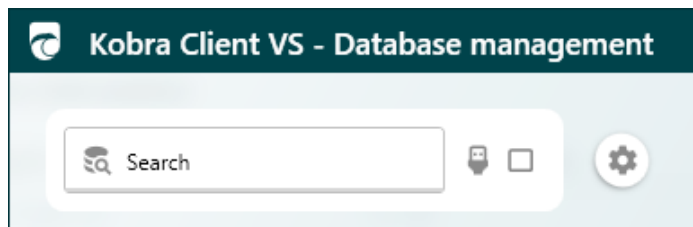
## 11.4 Database window



Datenbank-Fenster Hauptansicht

## 11.5 Suche

In the database window, you can search for VS storage devices and smartcards in the search field at the top left:



You can use this „USB“ symbol to automatically search for the last connected device in the database.



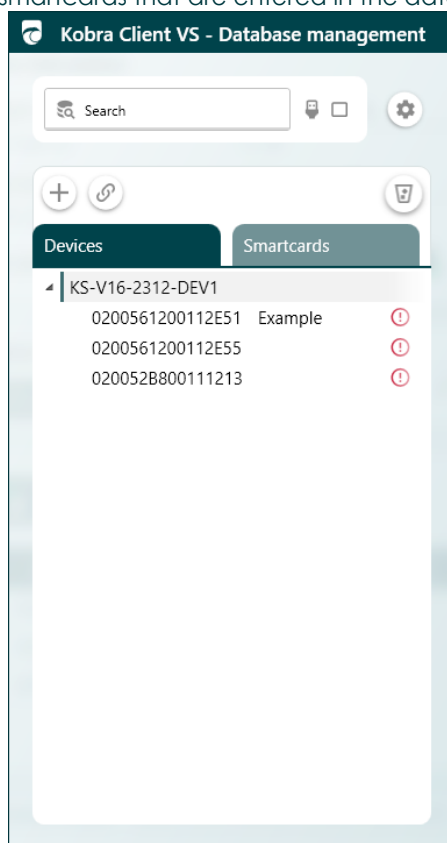
You can use this „checkbox“ icon to search for VS storage devices in the database as soon as they are connected.



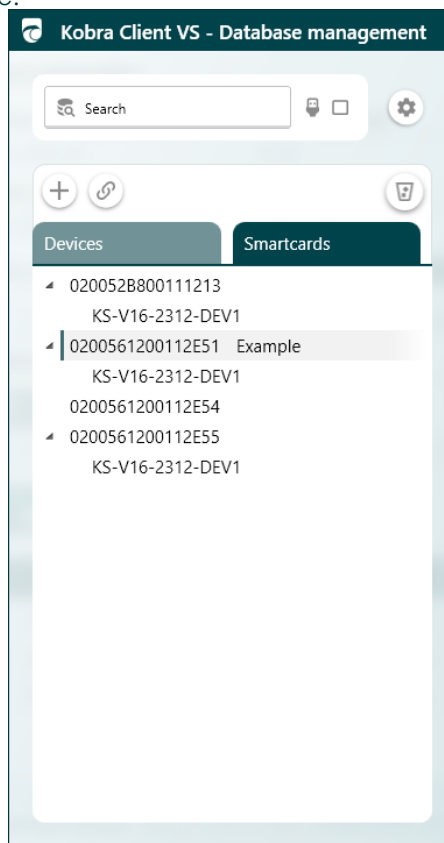
This „Settings“ icon allows you to export the database, import a new database and change the database password.

## 11.6 List of VS storage devices and smartcards

In the Devices / Smartcards tab, you will find a list of all VS storage devices and smartcards that are entered in the database.



Listing of VS storage devices



List of smartcards

## 11.6.1 Explanation of the symbols



By clicking on this „plus“ symbol, you can add new VS storage devices that are connected or already entered. You can also add smartcards.



You can assign smartcards to VS storage devices by clicking on this „bracket“ symbol.



By clicking on this „recycle bin“ icon, you can display VS storage device entries and smartcard entries that have been marked as deleted.

## 11.7 Read information about VS storage devices

By clicking on a registered VS storage device, you can see various information such as

- Serial number
- Storage capacity
- Admin-PIN (if required)
- Status (can be changed by clicking on the list to the right)
- When the VS\_Storage device was added to the database
- And when the entry for the VS storage device was last changed in the database

**KS-V16-2312-DEV1**

Serial number	KS-V16-2312-DEV1	<b>History</b>
Storage Capacity	16 GB	2023-12-20 15:24:49 admin Added
Firmware version	1.2.0	
Label	<input type="text" value="0 / 512"/>	
Admin PIN	<input type="password"/>	
State	<span>OK</span>	
Added	2023-12-20 15:24:49	
Last modified	2023-12-20 15:24:49	

Buttons: Save, Restore, Delete

### You also have the option of

- delete the entry of the VS storage device from the database
- save changes to the information on the VS storage device in the database
- Restore the last changes to the information
- Permanently delete the information or restore information marked for deletion

## 11.8 Read information about smartcard

By clicking on a registered smartcard, you can see various information such as

- Serial number
- Public key
- Label
- User-PIN (if required)
- SO-PIN (if required)
- Smart card type (can be changed)
- Status (can be changed by clicking on the list to the right)

- When the smartcard was added to the database
- And when the smartcard entry in the database was last changed

The screenshot shows a web interface for managing smartcards. The main card details are as follows:

Serial number	0200561200112E51
Public key	C54E82E3136BA37A14CF49E576A0E26F2D...
Public key size	4096 Bit
Version	1.0
Label	Example
7 / 512	
User PIN	<input type="password"/>
SO-PIN/PUK	<input type="password"/>
Smartcard type	Unknown
State	OK
Added	2023-12-20 15:24:49
Last modified	2023-12-20 16:40:02

At the bottom of the interface, there are three buttons: "Save", "Restore", and "Add to smartcard table". A red "Delete" button is located in the bottom right corner.

On the right side, there is a "History" section with two entries:

- 2023-12-20 16:40:02 admin Edited
- 2023-12-20 15:24:49 admin Added

### You also have the option of

- Restore the last changes to the information
- Permanently delete the information or restore information marked for deletion

### Warnhinweis:

The "User-PIN" and "SO-PIN/PUK" fields are not used for making changes, but only for entering the User-PIN or SO-PIN/PUK if these have been changed separately. To change the User-PIN and SO-PIN/PUK, go to the smartcard options in the login window and make sure that the database is connected. The changes are then recorded automatically.



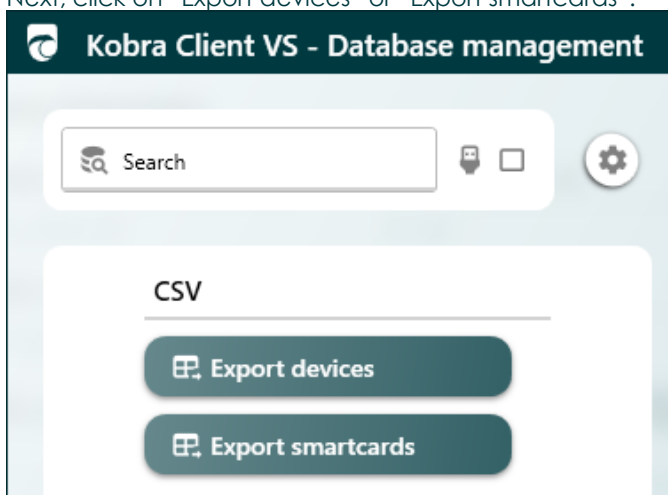
## 11.9 Export of storage devices and smartcards from the database

You have the option of exporting the device and smartcard information from the database as a CSV file.

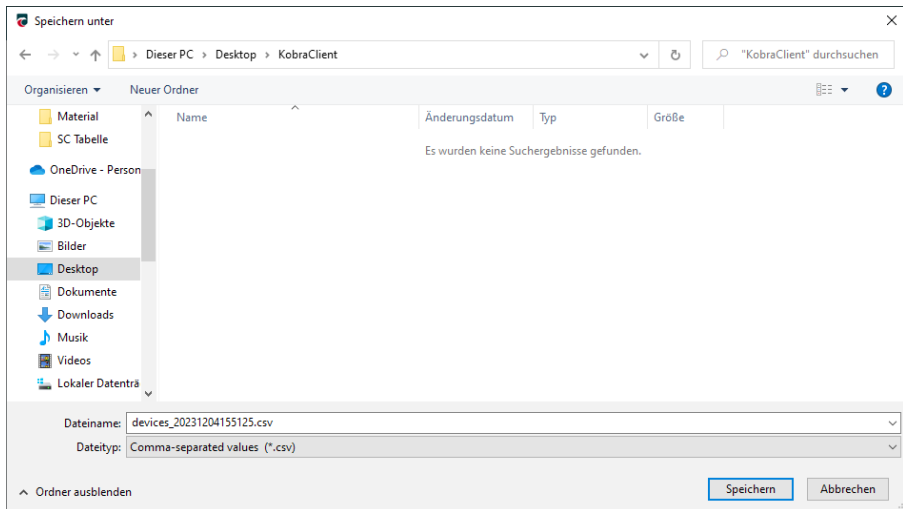
- To do this, click on the “Settings” icon



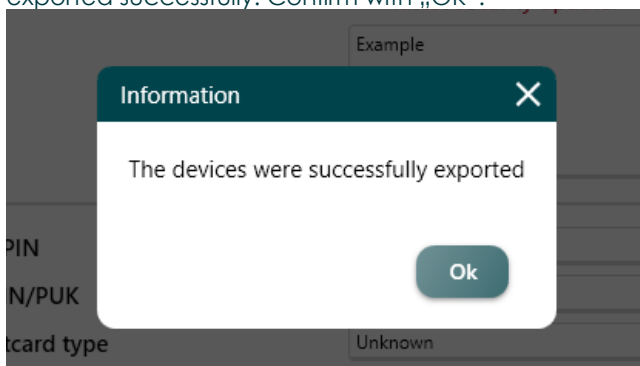
- Next, click on “Export devices” or “Export smartcards”.



- Select the path under which the CSV file is to be saved. Then press „Save“.



- A message appears stating that the devices or smartcards have been exported successfully. Confirm with „OK“.



## 12. Scope of delivery

- Software Kobra Client VS

## 13. Notes

Please ensure that you close the Kobra Client VS software correctly when exiting. This ensures data integrity. Never remove the Kobra VS storage device from the USB port before the software has been properly closed.

## 14. Data security and disclaimer

We recommend that backups created with the Kobra Client VS are always saved on at least two different Kobra VS storage devices. DIGITTRADE GmbH is not liable for the loss of data

DIGITTRADE GmbH is not liable for the loss of data or any resulting costs and damages and is not responsible for the stored information under data protection law.

Only use the Kobra Client VS software in an absolutely secure environment, for example on a virus-free computer that is separated from the network and stored securely without an Internet connection.

Create regular backups to avoid data loss.

## 15. Dealing with security errors and problems

The manufacturer provides the administrators of Kobra VS storage devices with an error management system for the controlled recording, classification and rectification of any errors. In this chapter you will find instructions on how to register with the manufacturer and the exact steps for reporting suspected errors. All error management procedures can be carried out via the website

<https://www.digittrade.de/vs> or via the e-mail address [vs@kobra-infosec.de](mailto:vs@kobra-infosec.de).

### 15.1 Report error

As part of continuous product improvement and maintenance, we regularly check whether the security performance authorised by the BSI within the scope of VS-NfD continues to be provided despite new attack strategies. If you or a service provider commissioned by you have discovered a potential vulnerability before us, we would be grateful for any information you can provide in order to improve security for all users.

As a possible zero-day attack could significantly restrict the security of a large number of users, it is essential that this is kept secret until we can provide a firmware update and the majority of users have installed this in their devices or software. In this context, notification of a possible vulnerability should only be made in encrypted form. This can be done using the form on <https://www.digittrade.de/vs> or by sending an encrypted email to [vs@kobra-infosec.de](mailto:vs@kobra-infosec.de). The S/MIME certificate and the PGP key for this can also be found at <https://www.digittrade.de/vs>.

We require the following information in order to correctly categorise and quickly rectify the possible error:

- 1) Relevant model and version of the Kobra Client VS or Kobra VS storage device
- 2) Serial number of the device on which the error occurred
- 3) A description of the procedure for reproducing the error
- 4) What advantages an attacker can gain from this error (optional)
- 5) Recommendations for rectifying the error (optional)

Non-safety-critical errors and user-specific suggestions for improvement can also be reported to us via the contact channel described above. If you have general questions about the use and functionality of the Kobra VS storage device, please contact us by e-mail at [kundendienst@digittrade.de](mailto:kundendienst@digittrade.de), by phone at [+49/345/2317353](tel:+493452317353) or via the web form on the website <https://www.digittrade.de/store/kontaktformular>.

## 15.2 Registration

For automatic notifications of any security problems with your Kobra VS storage device, we recommend registering at <https://www.digittrade.de/vs>. It is mandatory to enter an e-mail address and select the product; all other information is voluntary. It is also helpful to enter the serial numbers so that we can provide more specific recommendations in the event of security risks.

After successful registration, you will receive a non-disclosure agreement from us, which you can sign, scan and email to [vs@kobra-infosec.de](mailto:vs@kobra-infosec.de) by e-mail. After a check by us, you will be added to the distribution list and will receive a separate confirmation e-mail.

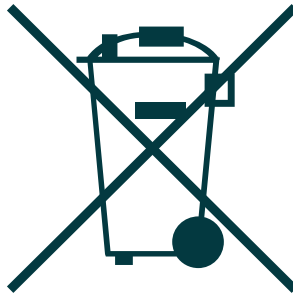
In addition to the automatic notification of any security problems, you will also receive an e-mail with instructions on how to avoid these problems. If you wish, you can also receive notifications about patches, firmware updates and new models.

If you no longer wish to receive information about security problems with your Kobra Client VS or Kobra VS storage device, you can unsubscribe at any time by sending an e-mail to [vs@digittrade.de](mailto:vs@digittrade.de) to be removed from the mailing list.

## 15. Note on the protection and preservation of the environment

In accordance with the EC Directive, waste electrical and electronic equipment may not be disposed of as municipal waste. In order to prevent the spread of the building materials in your environment and to save natural resources, we ask you to dispose of this product at the end of its service life only at a local waste collection centre near you.

Thanks to these measures, the materials in your product can be reused in an environmentally friendly manner.



## Your Notes

© 2023 DIGITRADE GmbH

## **Deutsch**

Dieses Handbuch ist urheberrechtlich geschützt und darf nicht (auch nicht teilweise) ohne schriftliche Zustimmung der DIGITRADE GmbH kopiert werden

## **English**

This user manual is protected by copyright. No part of this material may be reproduced, transcribed, used or disclosed to any third party in any form or by any means, without the written permission of the DIGITRADE GmbH

**DIGITRADE GmbH**

Ernst-Thälmann-Straße 39

06179 Teutschenthal

Fon +49 / 3 45 / 2 31 73 53

Fax +49 / 3 45 / 6 13 86 97

Web: [www.kobra-infosec.de](http://www.kobra-infosec.de)

E-Mail: [vs@kobra-infosec.de](mailto:vs@kobra-infosec.de)