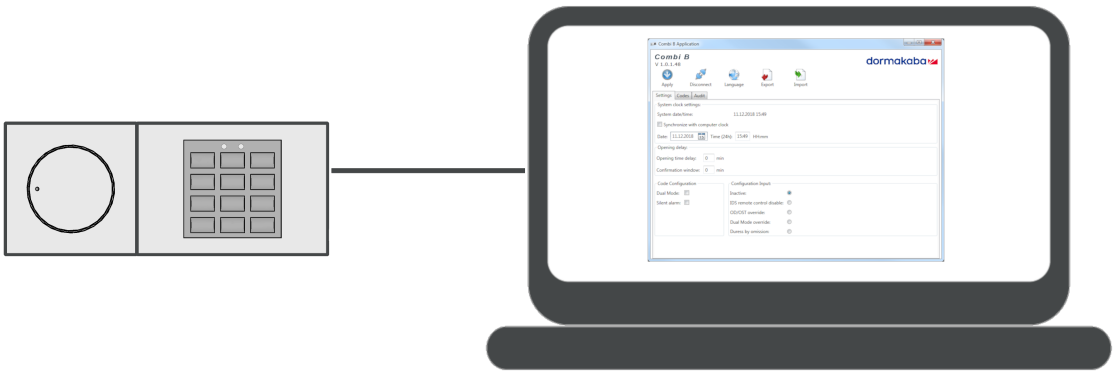

Combi B 90 PC Software

User Manual

01/2023

EN

dormakaba

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Subject to technical changes.

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1 Glossary

Terms	Meaning
audit	Approximately 960 events (opening, closing, configuring the lock etc.) are saved in the audit memory of the lock.
button	An icon that can be clicked with the cursor.
code	A numerical sequence of 8 digits which consists of an ID and a PIN. It serves as an identification for the operator.
Courier Code	By using this code it is possible to open the lock without waiting for a defined Time Delay.
CW	Confirmation Window An adjustable time which starts after the Opening Delay has elapsed. It is only possible to open the lock during the set Confirmation Window.
Dual Mode	2 different valid codes are required to open the lock.
Duress Alarm	When this function is activated on the lock, a Duress Alarm, imperceptible for the intruder, will be triggered.
Emergency key	By using this physical key it is possible to open the lock mechanically and independently at any time.
ID	A fixed 2 digit number.
Manager Code	If the Manager Code with the ID 01 is activated in the PC Software, the following functions can be configured: • Configuring or deleting OD/CW • Activating or deactivating Dual Mode
Master Code	This is the highest code in the code hierarchy
OD	Opening Delay An adjustable time which must pass before it is possible to open the lock.
operator	The master, the users and courier are operators of the lock.
PIN	A freely selectable combination of 6 digits.
relative time	The relative time is shown in the audit when the lock time settings do not correspond with the PC time settings. The relative time is calculated on basis of the PC time settings and only dates back to the last battery change.
Setup Code	By using this code it is possible to open the lock during the assembly in the factory.
User Code	By using this code it is possible to open the lock. Users can also change their own code.

2 About this document

2.1 Validity

This document describes the product:

Product designation:	dormakaba Combi B 90 programming software
Version:	1.0.1.53

2.2 Target group

This document addresses itself to users administering the lock via software.

2.3 Purpose and objective

The content of this User Manual gives information on the proper installation of the Combi B 90 programming software on a PC and its operation.

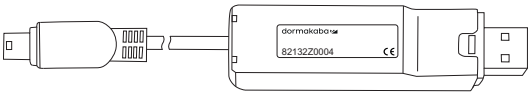
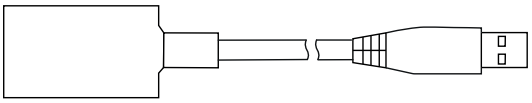
2.4 Additional documents

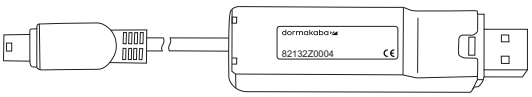
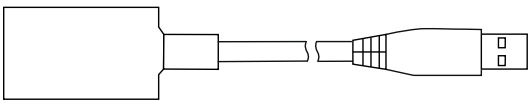
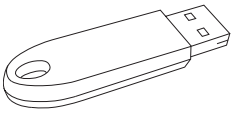
The following documents are available:

- Operating Instruction Combi B 90 with metal input unit

3 Scope of delivery

2 software packages are available.

Audit software package	
1 Combi B 90 adapter cable	
1 USB extension cord, 2 m	

Programming software package	
1 Combi B 90 adapter cable	
1 USB extension cord, 2 m	
1 software protection dongle	

4 Functionality

4.1 Audit software

The audit software has the following functions:

- Reading-out audits
- Exporting and importing audits

4.2 Programming software

The programming software includes functions for the configuration of the Combi B 90 lock. This makes it possible to configure the lock via software instead of using the input unit.

5 Installation

5.1 System requirements

1 unused USB port is required for the audit and 2 USB ports are required for the full version for configuration.

Operating System	Windows 10 Windows 8 Windows 7
Processor	min. 1.4 GHz (2.4 GHz recommended)
Memory	1 GB (2 GB RAM recommended)
Free hard disk space	at least 100 MB free space

5.2 Installing the software on a computer

Administrator rights are necessary for the installation of the software.
If error messages occur during the installation or commissioning of the software, the administrator must be contacted.

If the administrator is unable to solve the problem, the local supplier must be contacted for support and given a detailed error description.

It is recommended to check on a regular basis if software updates are available.

1. Download the zipped Combi B 90 programming software file on the local desktop.
2. Unpack the .zip-file.
3. Uninstall an existing Combi B 30 software.
4. Start the installation of the software by double clicking on the setup.exe in the folder.
   ⇨ The installation wizard is launched.
5. Click on the install button.
   ⇨ The installation starts.
6. Pay attention to the messages and notes on the screen during the installation.
7. Only continue or restart the PC when prompted.

⇨ When the steps have been executed successfully, the installation process will be completed.
The start menu is linked.

6 Operation

6.1 Establishing a connection to the lock via the PC software

When the connection between the lock and the PC software has been established successfully, the lock will remain permanently activated.
The automatic switch-off of the electronics will not come into effect as long as the PC software is not disconnected.

Use the special socket of the input unit only in connection with the original dormakaba CB 90 adapter cable.

A connection must be established between the lock and the computer via the CB 90 adapter cable to be able to use the PC software.

1. Plug the Mini USB plug of the CB 90 adapter cable in the Mini USB socket on the side of the input unit.
2. Plug the standard USB plug of the CB 90 adapter cable in the interface of the computer.

If the clock of the lock is not set with one of the time functions either manually or automatically, no real time will be saved in the audit. A calculated relative time will be shown in the read-out.

6.2 Initialization of the software

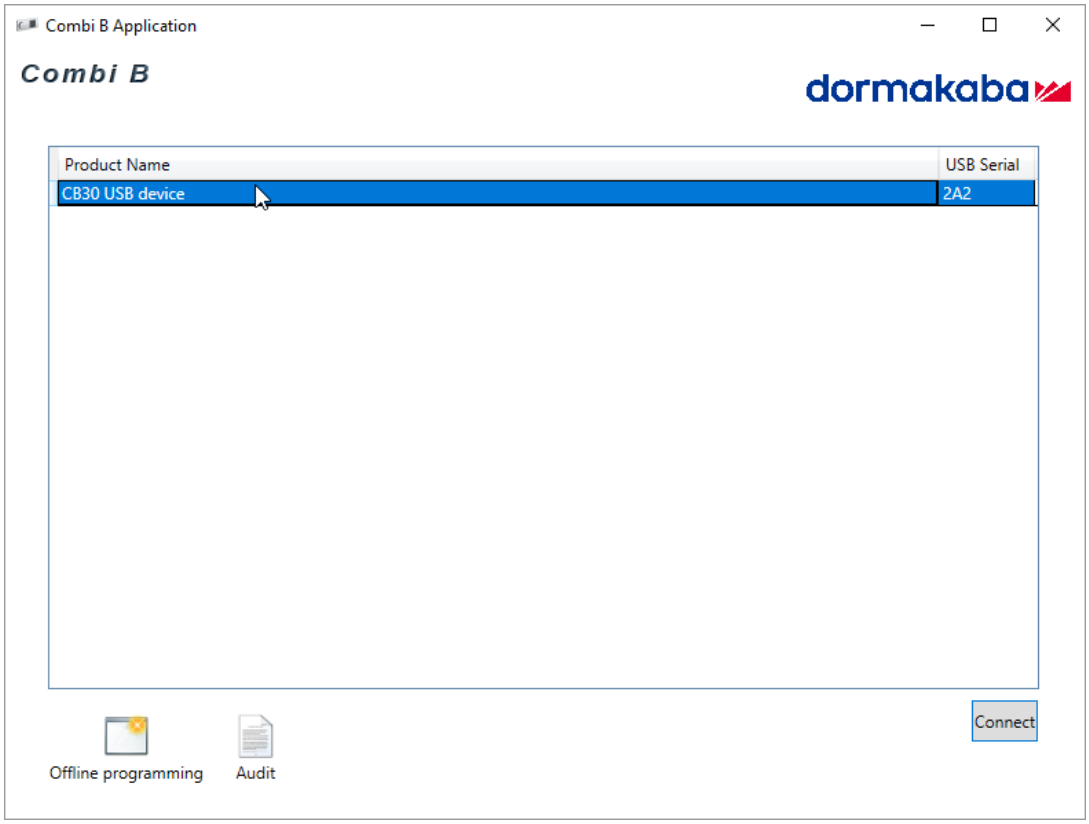
There are 2 options to initialize the software connection:

- By using the emergency key
- By using the assigned Master Code

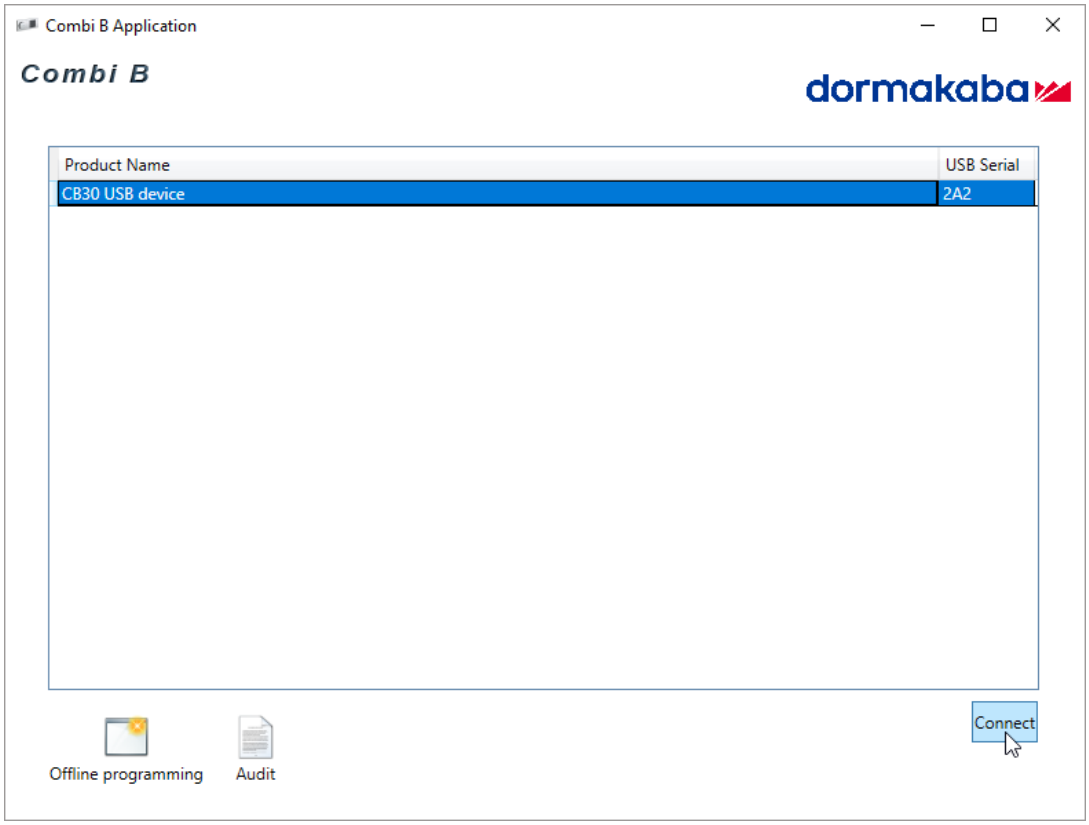
6.2.1 Initialization by using the emergency key

If the Master Code was not activated, the initialization must be executed with the input unit by using the emergency key.

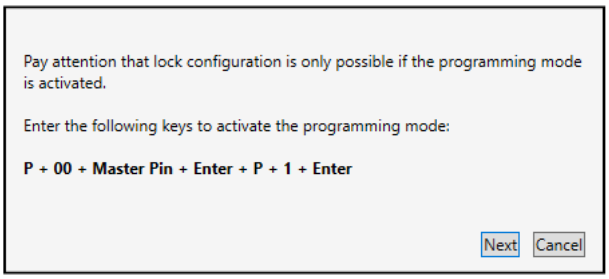
For information on lock opening with the emergency key, see the Operating Instruction Combi B 90 with metal input unit.



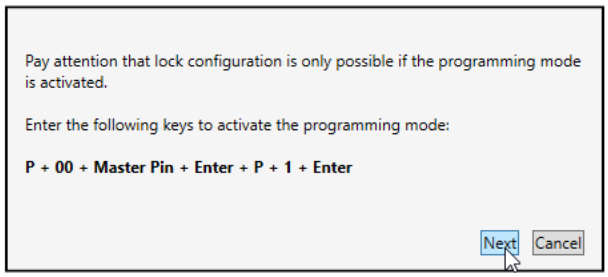
1. Select the detected lock in the software window to initialize the connection.



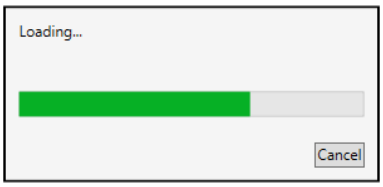
2. Click on **Connect**.



3. When this dialog window appears, open the lock by using the emergency key.
4. Press **P**.
5. Press **ENTER**.
   ⇨ The green light is on and the acoustic signal sounds twice.
6. Press **P**.
7. Press **1**.
8. Press **ENTER**.
   ⇨ The green light is on and the acoustic signal sounds twice.



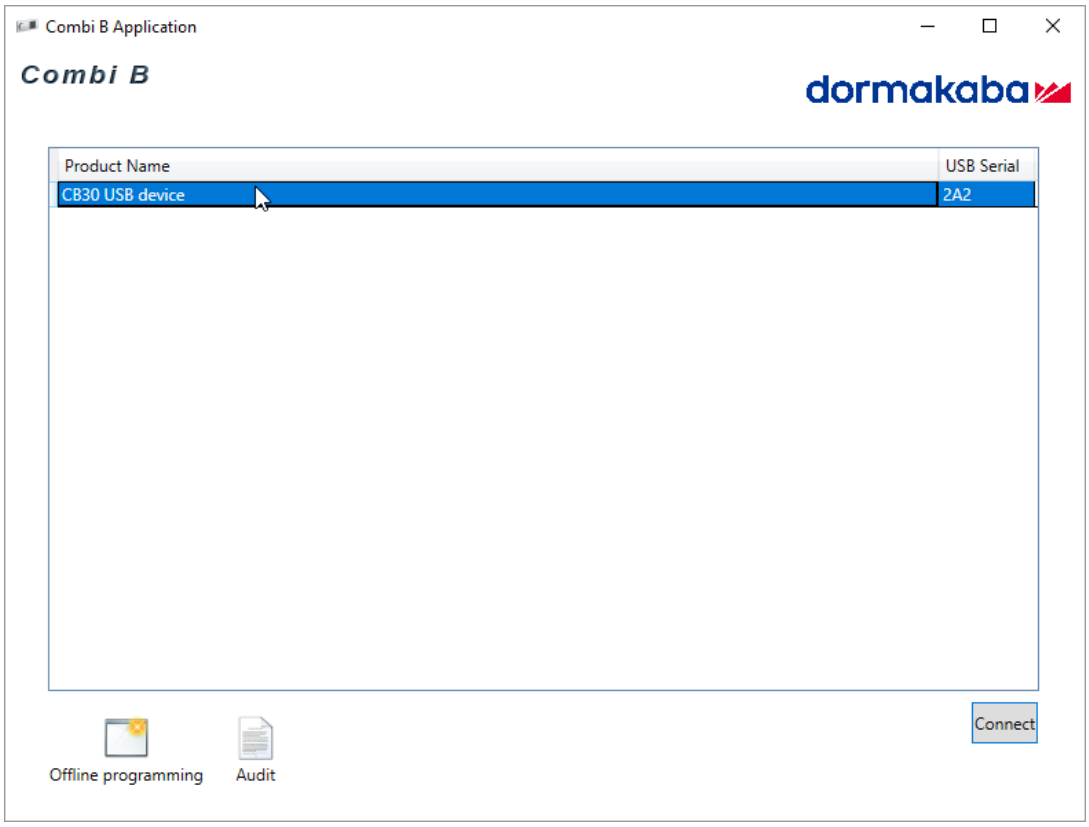
9. Click on **Next**.



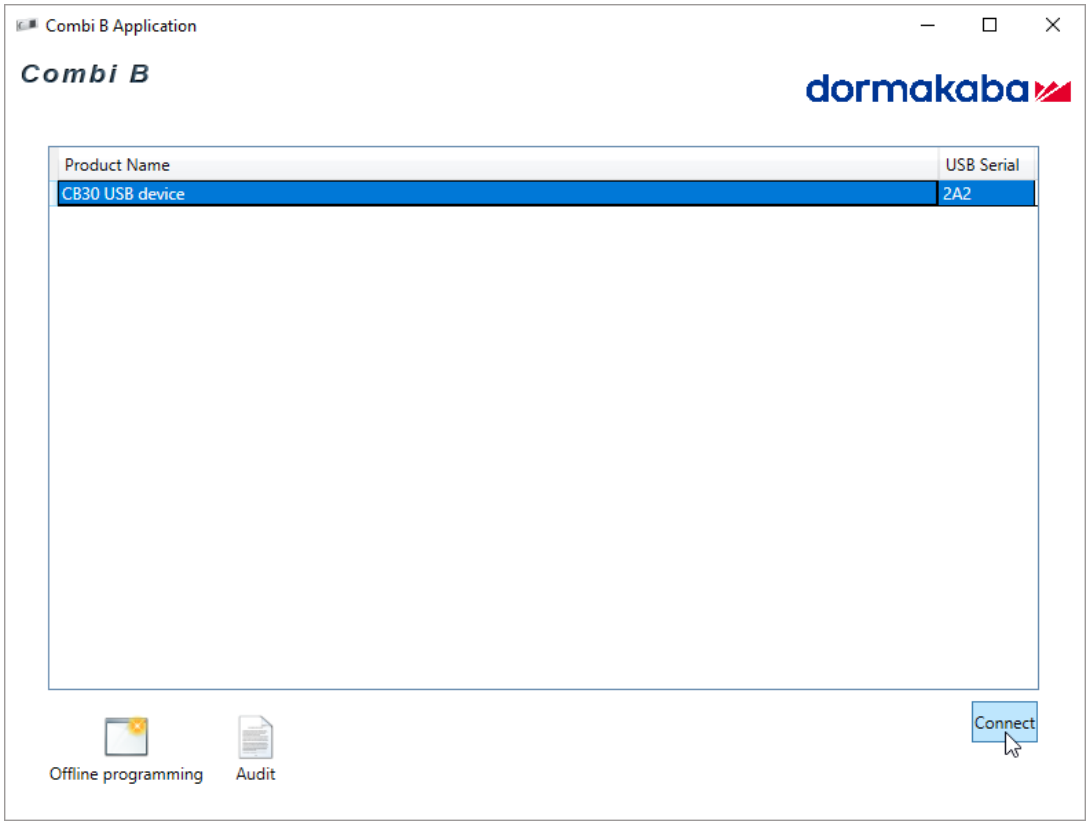
   ⇨ The initialization starts.
10. Close the lock by using the emergency key.

6.2.2 Initialization by using the Master Code

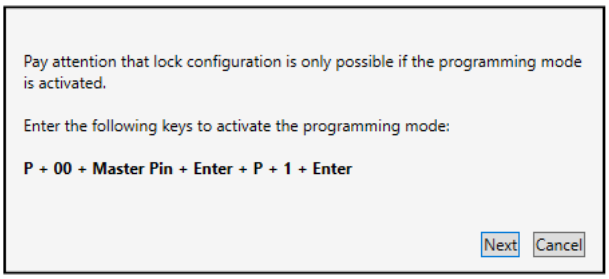
The initialization is only possible with an assigned Master Code.



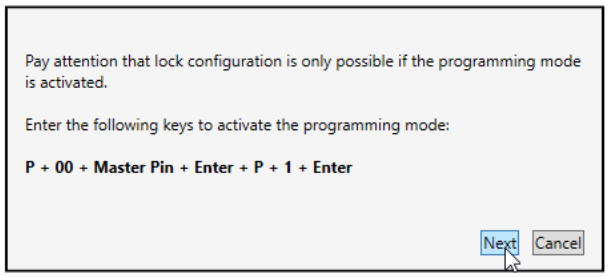
1. Select the detected lock in the software window to initialize the connection.



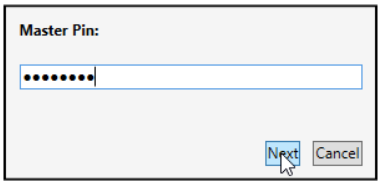
2. Click on **Connect**.



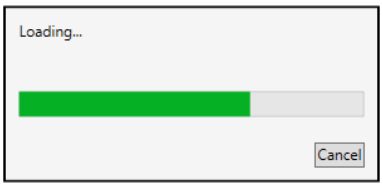
3. When this dialog window opens, press **P** on the input unit.
4. Enter the valid Master Code **00 XX XX XX**.
5. Press **ENTER**.
   ⇨ The green light is on and the acoustic signal sounds twice.
6. Press **P**.
7. Press **1**.
8. Press **ENTER**.
   ⇨ The green light is on and the acoustic signal sounds twice.



9. Click on **Next** in the dialog window.
10. Enter the Master Code **00 XX XX XX** in the software.



11. Click on **Next**.

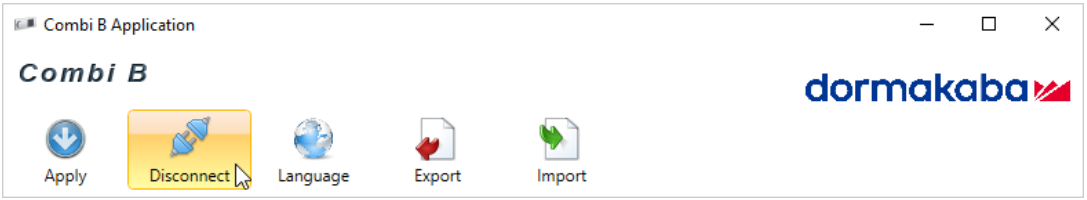


⇨ The initialization starts.

6.3 Disconnecting the lock from the computer

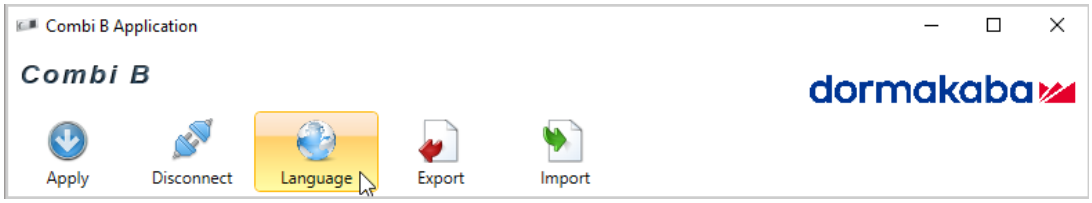
During data transmission it is not possible to end the connection between the lock and the computer by clicking on **Disconnect**.

It is necessary to wait until data transmission is completed.

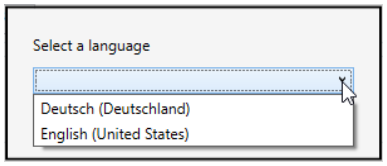


1. Click on **Disconnect**.
2. Pull the standard USB plug from the PC.
3. Pull the Mini USB plug from the input unit.

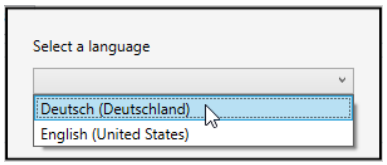
6.4 Setting the language



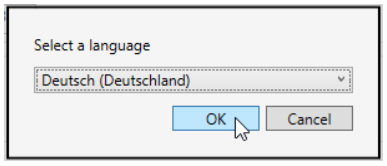
1. Click on **Language**.



2. Open the drop-down menu.



3. Select the preferred language from the drop-down menu.



4. Click on **OK**.

⇨ The selected language is set.

6.5 Configuring the lock via software

The configuration of the lock via software is only possible with the software protection dongle.

1. Plug the software protection dongle in an unused PC USB port.
2. Start the software.
3. Initialize the connection between the lock and the software.

⇨ After the connection has been established successfully, the software will read-out automatically the current configuration of the lock.

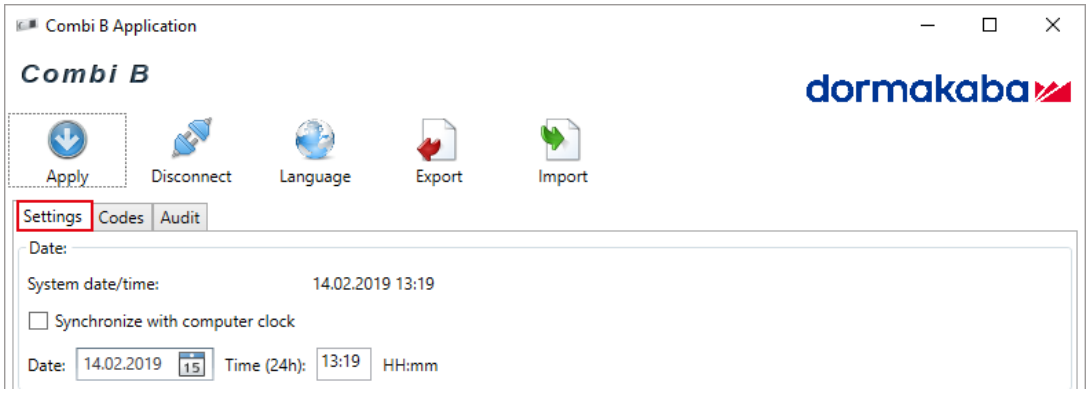
6.5.1 Settings

Keep in mind that all selected functions will be transferred automatically to the lock when clicking on **Apply**.

You must pay attention to select only functions which shall be activated.

6.5.1.1 Setting the date and time

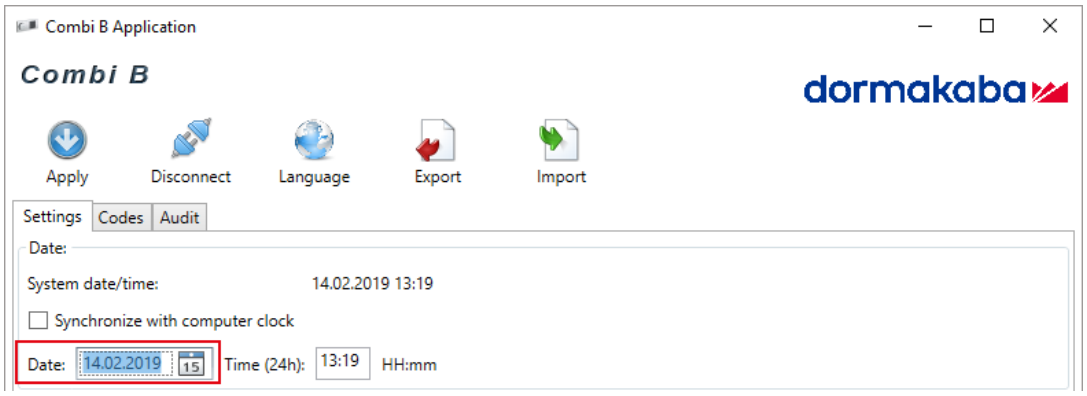
If during a battery change the lock remains de-energized for more than 1 minute, the time must be set again. If the time will not be set again, only the relative time will be saved in the audit.



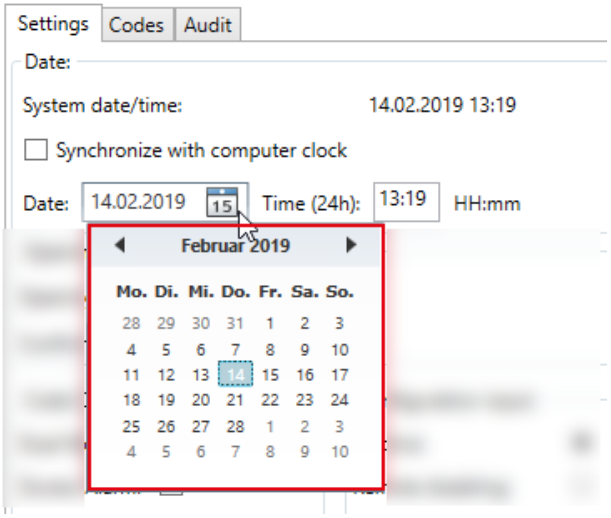
It is possible to transfer the current system time (date and time) or the manually set time to the lock.

Setting the date manually

There are 2 options to set the date manually.



1. Set the date manually in the "date field ".

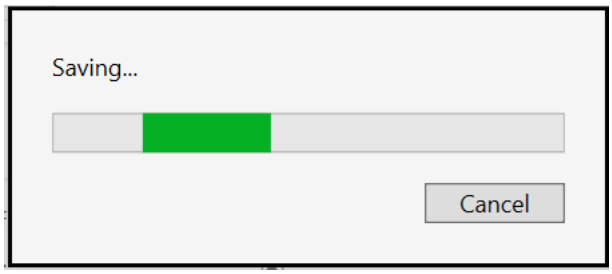


2. Alternatively click on the small calendar next to the input field.

   ⇨ A calendar opens.

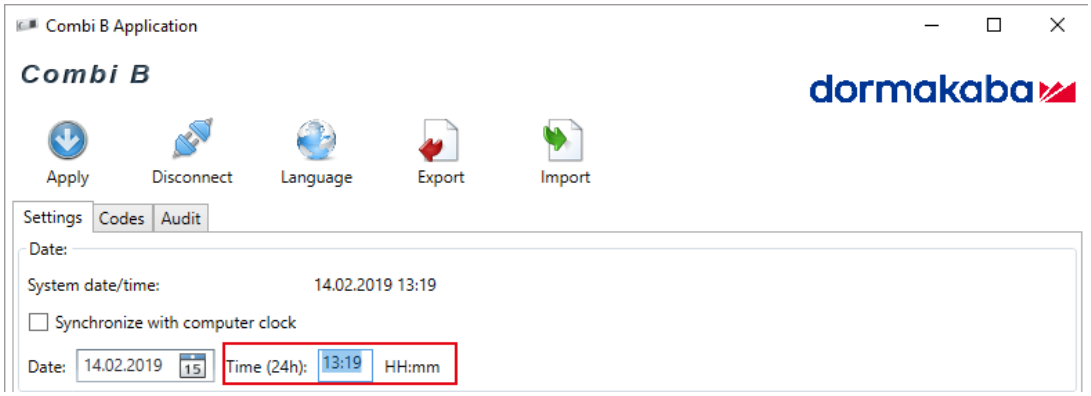
3. Click on the desired date.

4. Click on **Apply**.



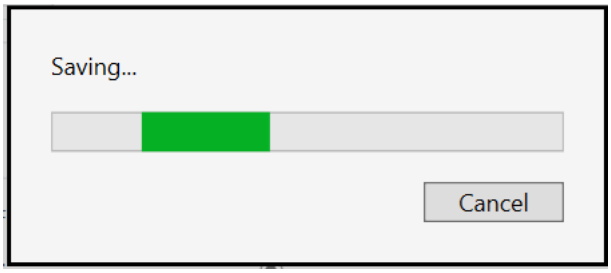
⇨ The selected date is transferred to the lock.

Setting the time manually



1. Enter the desired time (24 h) in the input field.

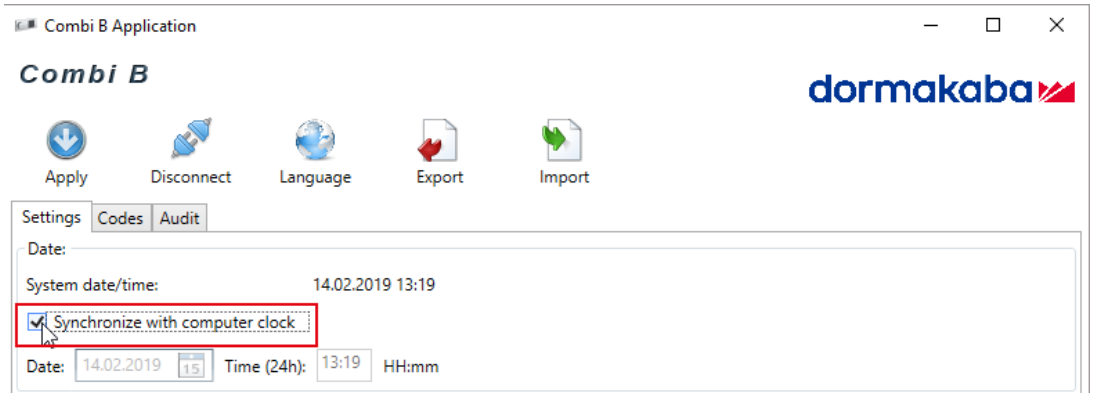
2. Click on **Apply**.



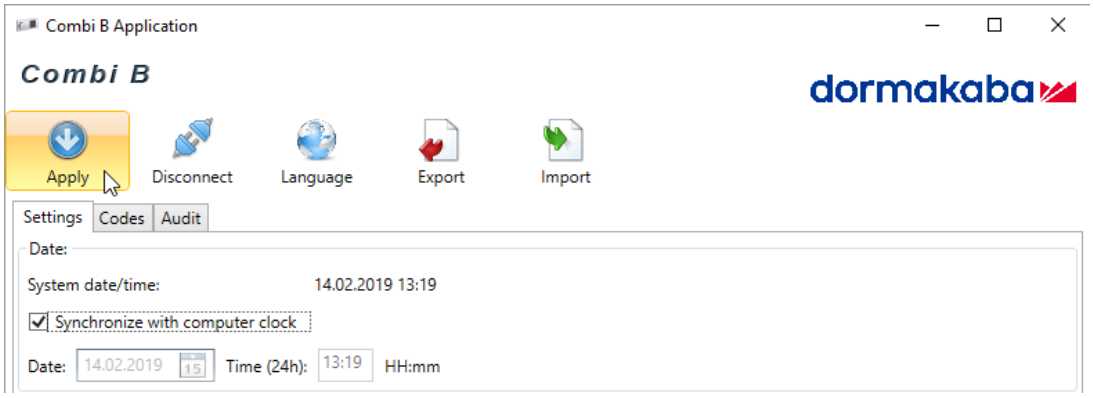
⇨ The desired time is transferred to the lock.

Setting date and time automatically

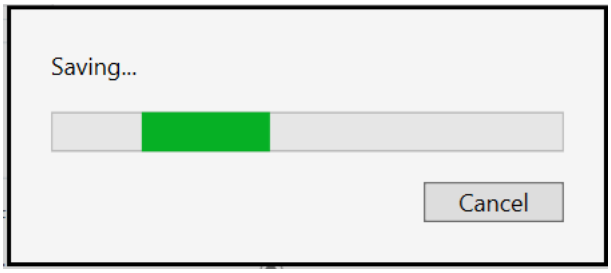
It is possible to set the date and time of the lock automatically with the system time.



1. Select the checkbox 'Synchronize with the computer clock'.



2. Click on **Apply**.



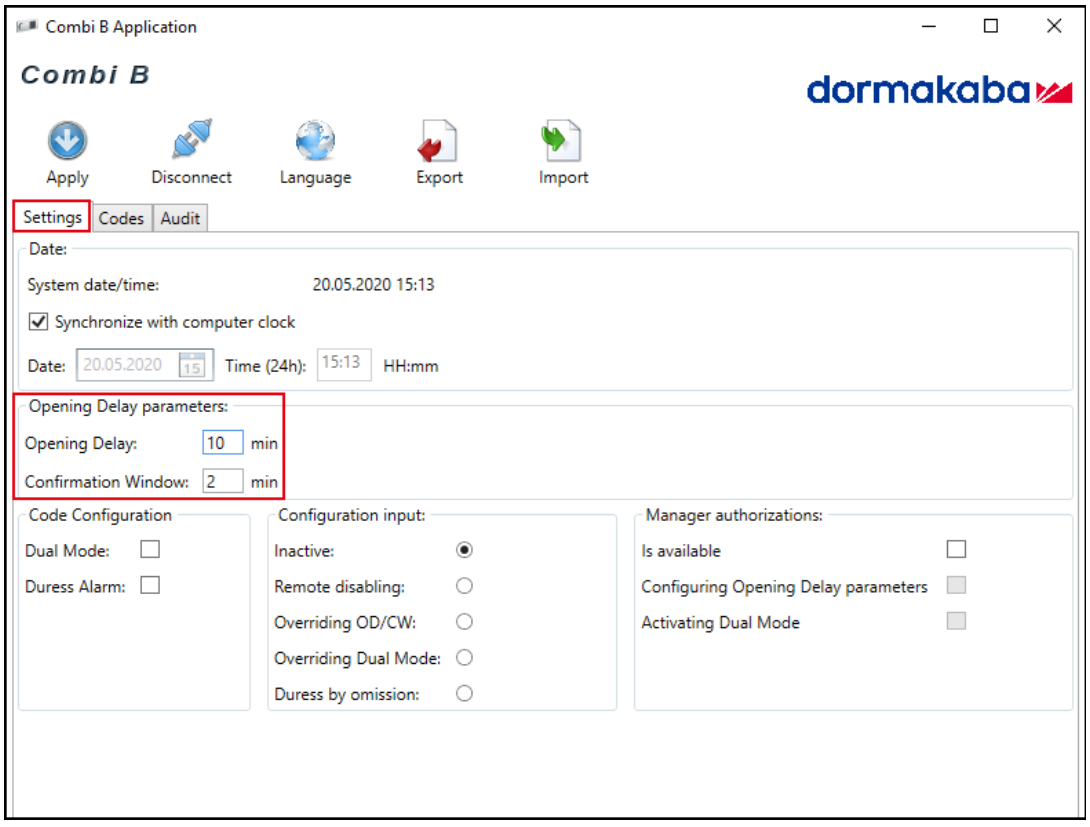
⇨ The settings are transferred to the lock.

6.5.1.2 Opening Delay and Confirmation Window

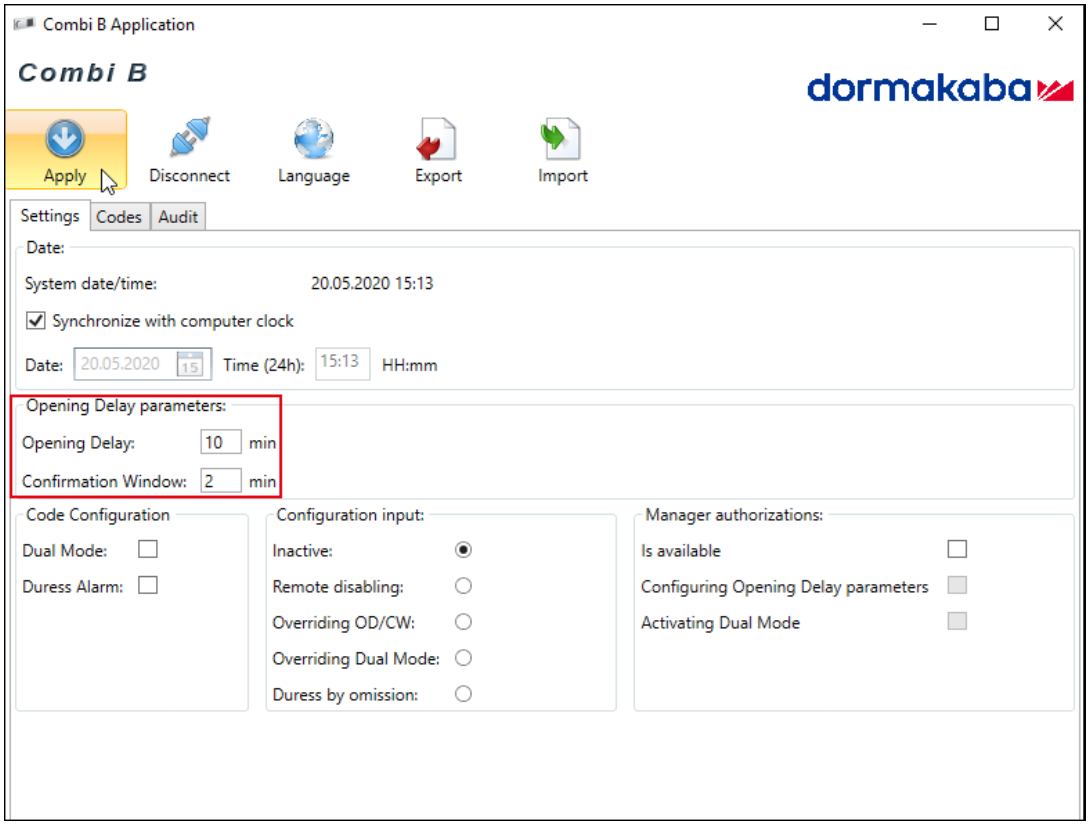
If this function is selected both values the Opening Delay and the Confirmation Window must be unequal to zero. Both values must be zero when this function shall not be activated.

If the function OD/CW is activated and values for OD/CW were defined, those values are valid for the Master Code, Manager Code and all activated User Codes except for the Courier Code. The Courier Code can still open the lock.

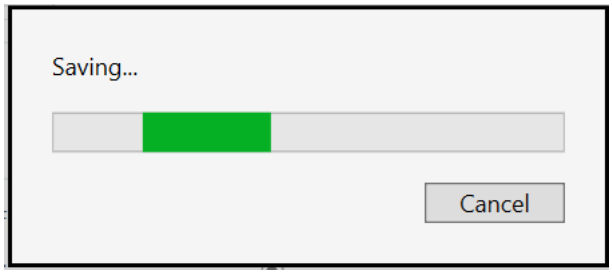
To activate the Opening Delay, the possible value to be defined is between 1 and 99 minutes. To activate the Confirmation Window, the possible value to be defined is between 1 and 19 minutes.



1. Enter a defined time period in the input field for the Opening Delay.
2. Enter a defined time period in the input field for the Confirmation Window.



3. Click on **Apply**.

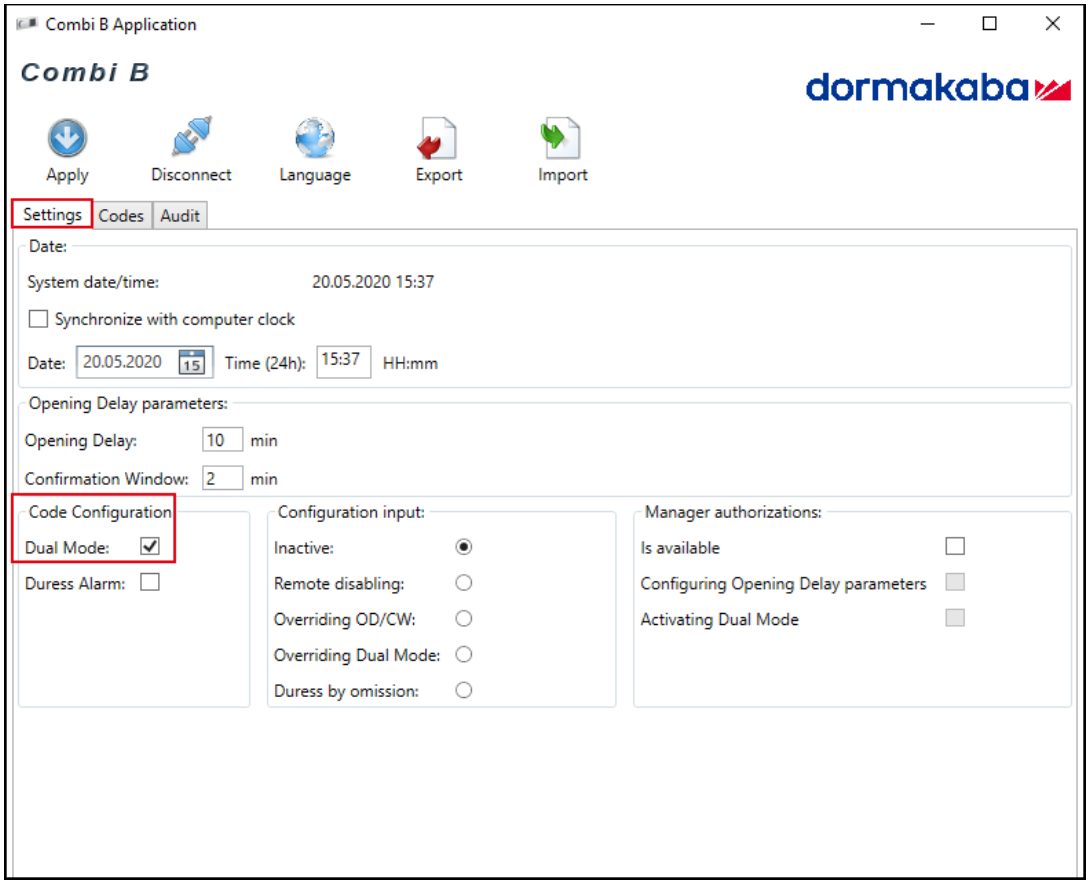


⇨ The function Opening Delay and Confirmation Window is activated.

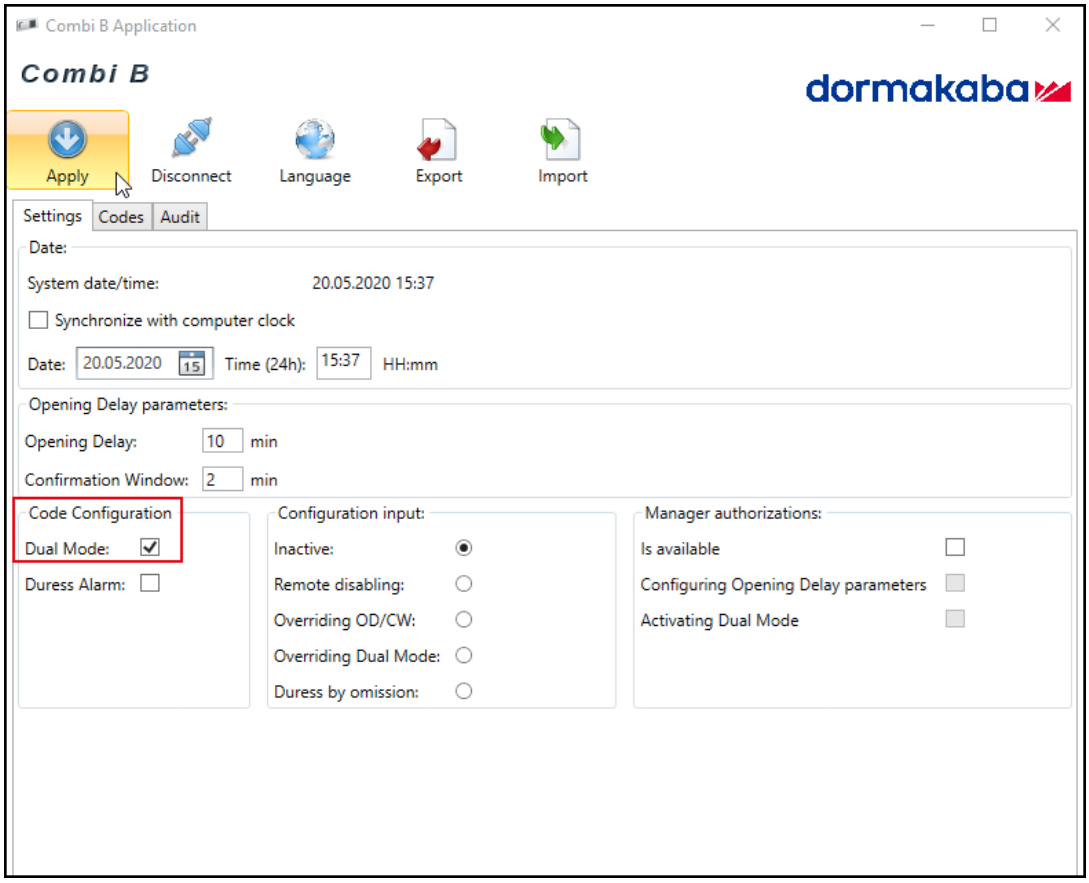
6.5.1.3 Activating Dual Mode

It is possible to configure the lock in a way that 2 activated codes are required for lock opening e.g. the Master Code and any other second code or any 2 other codes.

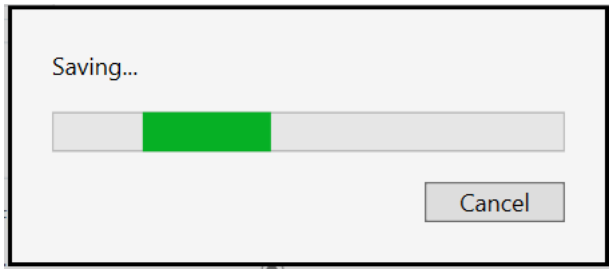
Make sure to activate at least 2 codes for Dual Mode operation.



1. Select the checkbox 'Dual Mode'.



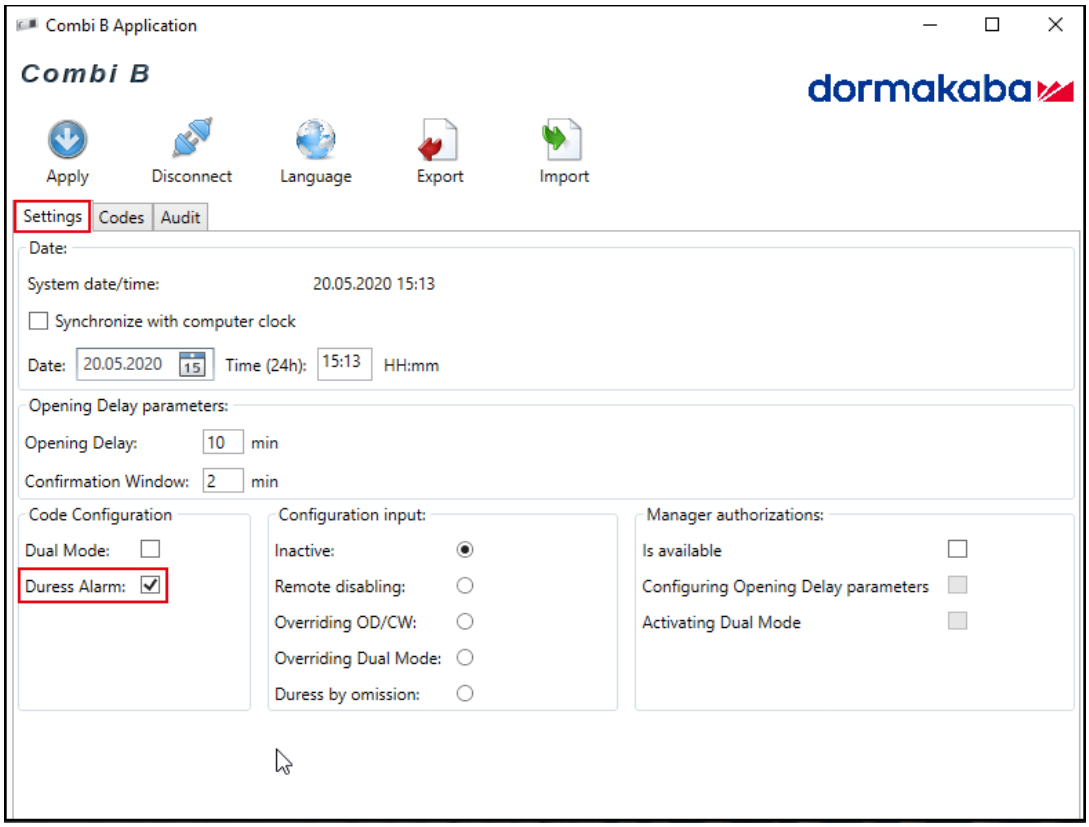
2. Click on **Apply**.



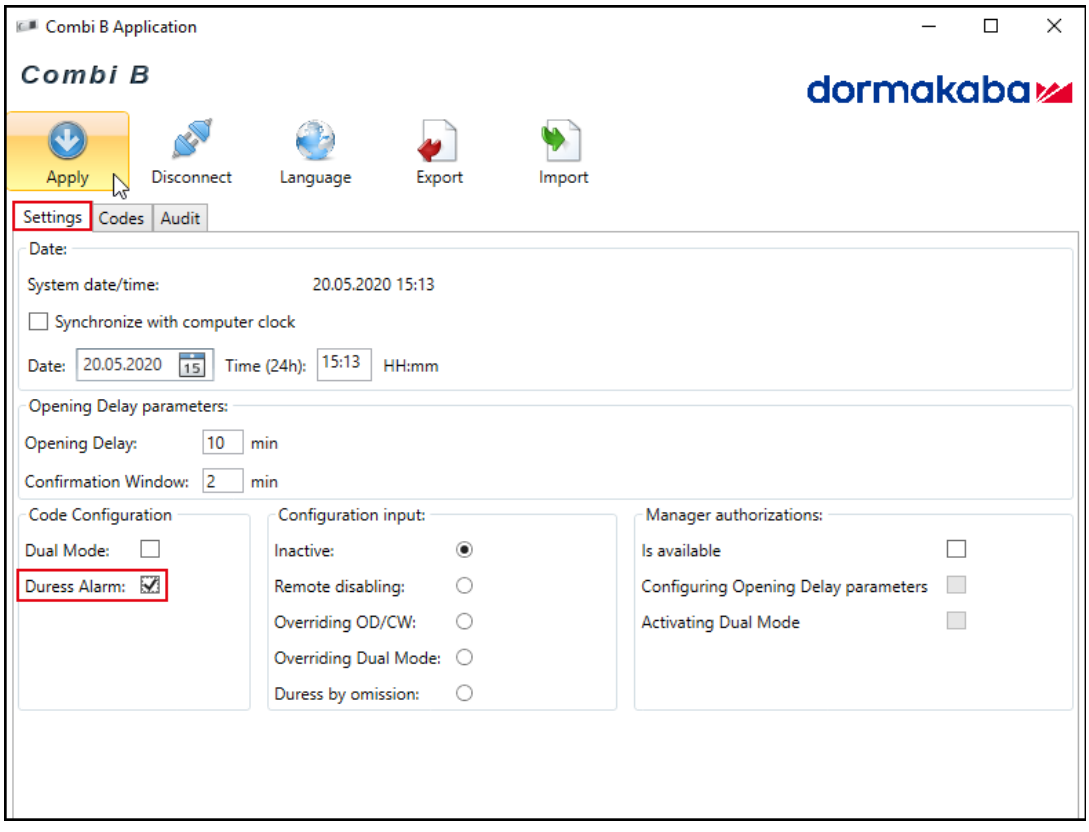
⇨ The function Dual Mode is activated.

6.5.1.4 Activating Duress Alarm

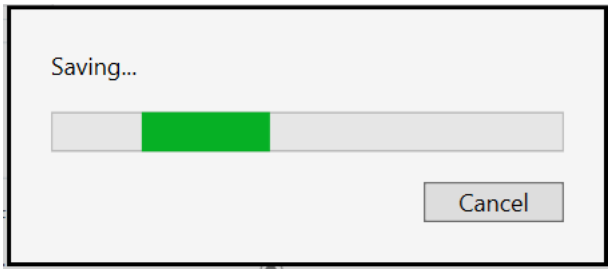
It is possible for the operator to activate a Duress Alarm which is imperceptible for the aggressor. To trigger a Duress Alarm, the value 1 must be added to or deducted from the last digit of a valid opening code.



1. Select the checkbox 'Duress Alarm'.



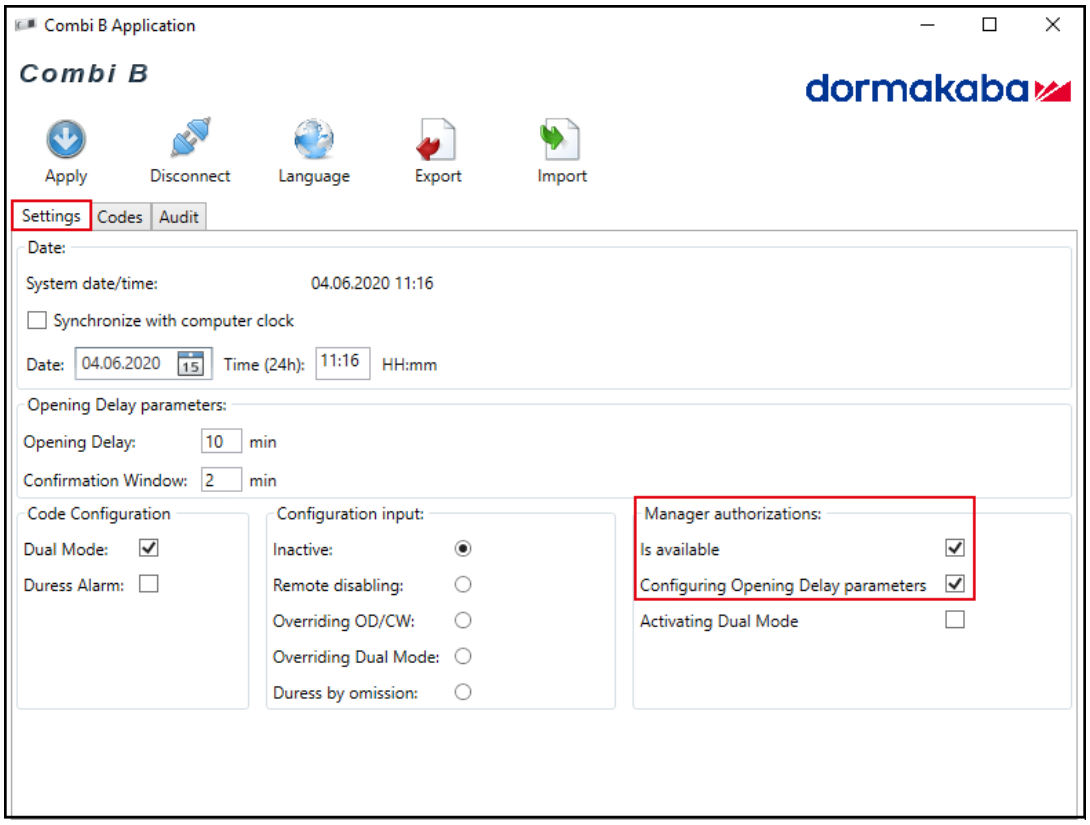
2. Click on **Apply**.



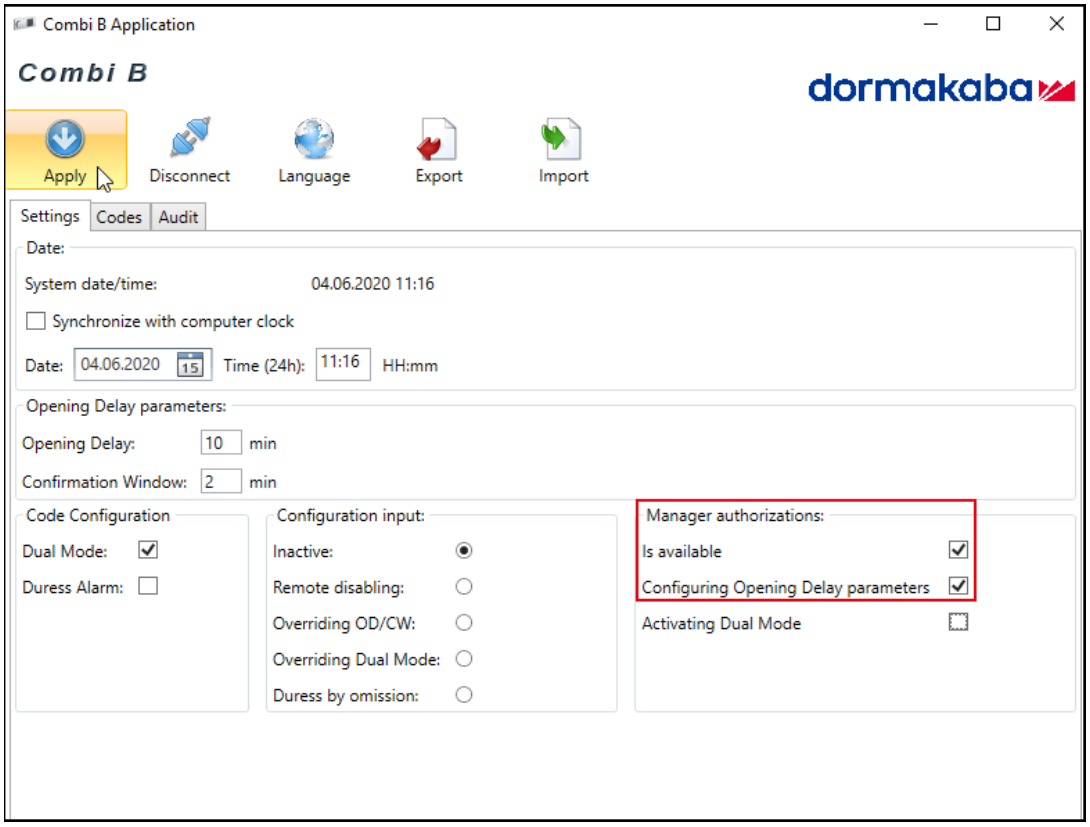
⇨ The function 'Duress Alarm' is activated.

6.5.1.5 Manager Code configuring Opening Delay parameters

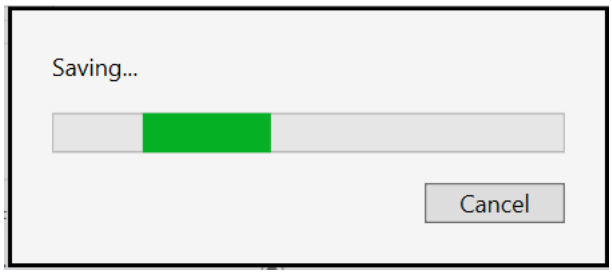
If the code with the ID 01 is set and the Manager Code is activated (the checkbox 'Is available' is selected), the Manager can change or delete the Opening Delay parameters.



1. If the Manager Code has not yet been activated, select the checkbox 'Is available' under manager authorizations to activate the Manager Code.
2. Select the checkbox 'Configuring Opening Delay parameters'.



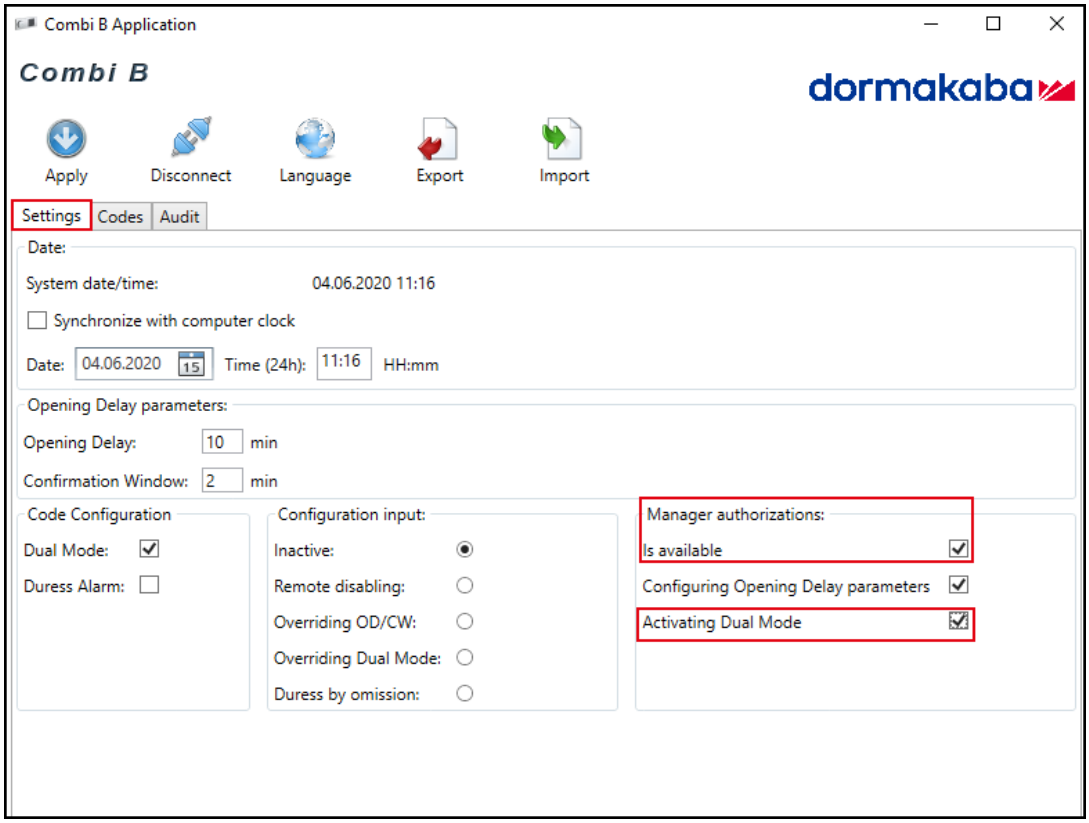
3. Click on **Apply**.



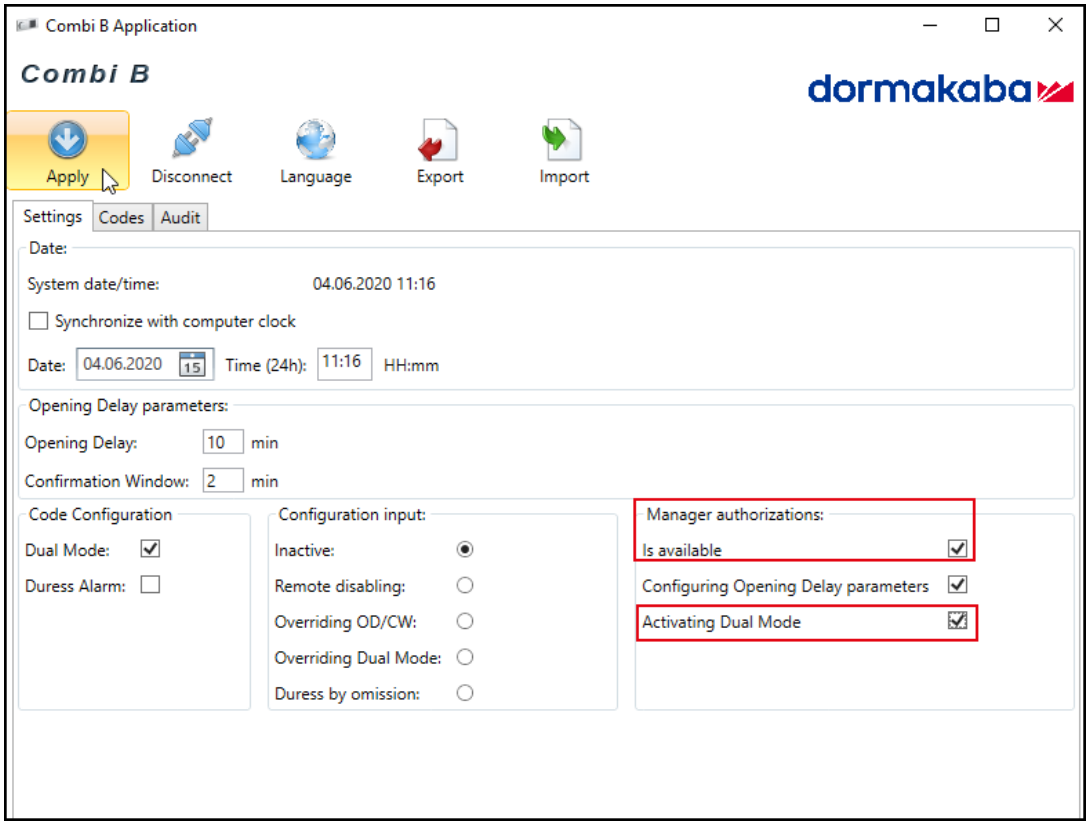
⇨ The function 'Configuring Opening Delay parameters' is activated.

6.5.1.6 Manager Code activating and deactivating Dual Mode

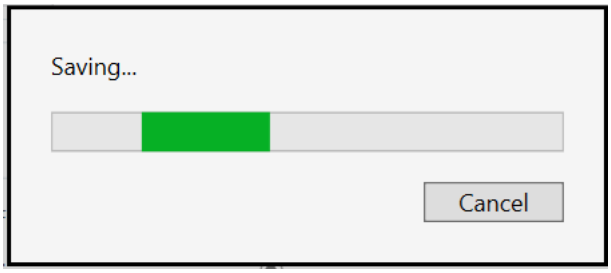
If the code with the ID 01 is set and the Manager Code is activated (the checkbox 'Is available' is selected), the Manager can activate or deactivate the Dual Mode.



1. If the Manager Code has not yet been activated, select the checkbox 'Is available' under manager authorizations to activate the Manager Code.
2. Select the checkbox 'Activating Dual Mode'.



3. Click on **Apply**.

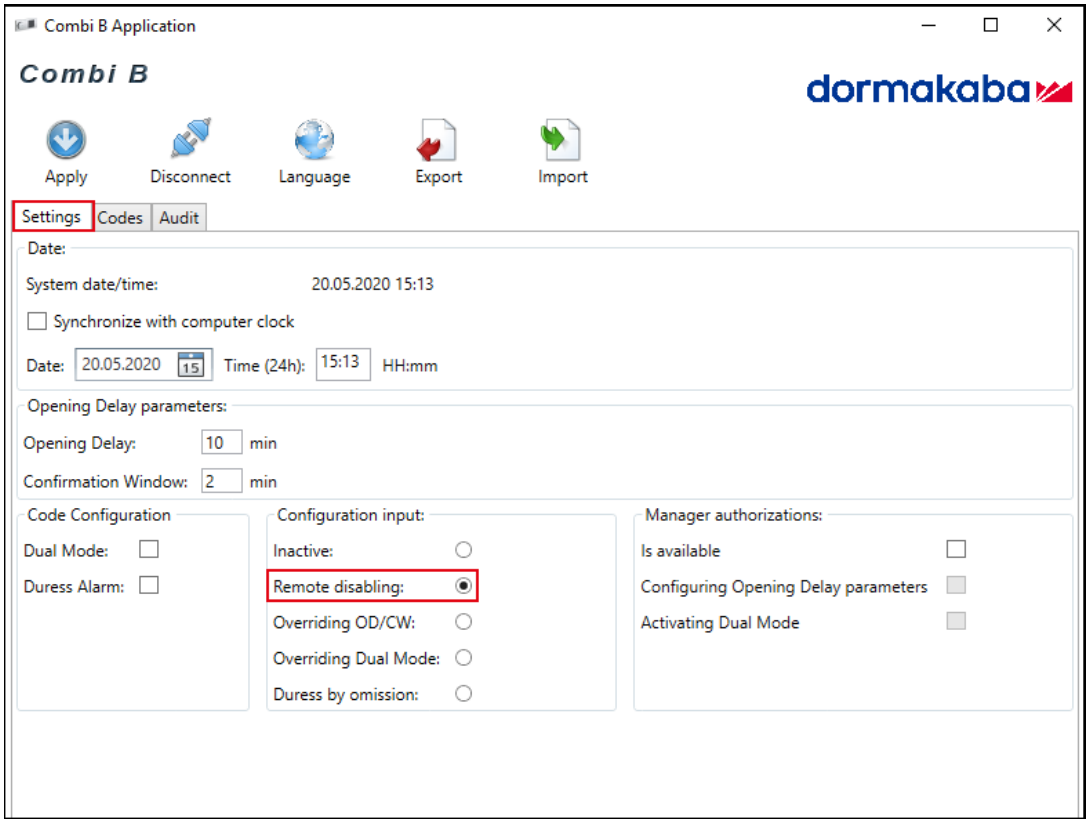


⇨ The function 'Activating Dual Mode' is activated.

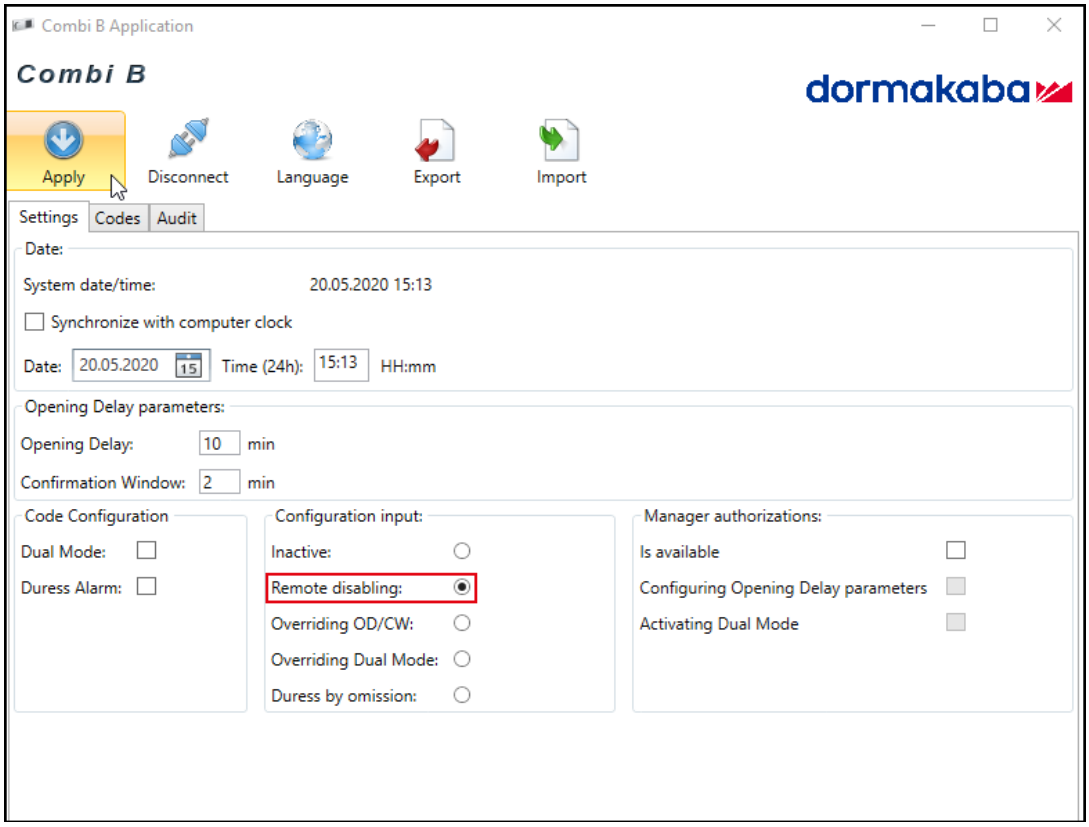
6.5.2 Configuring the inputs

6.5.2.1 Remote disabling

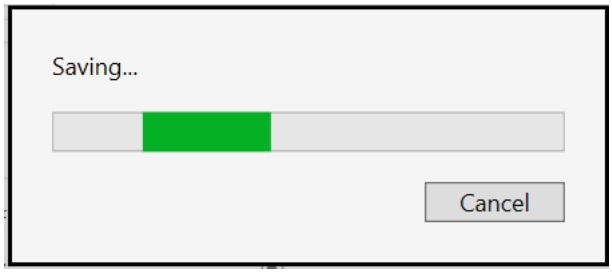
If an input signal has been applied, the lock will be deactivated.
Each key press is confirmed by a beep signal but the code entry will not be transferred to the lock.



1. Select the checkbox 'Remote disabling'.



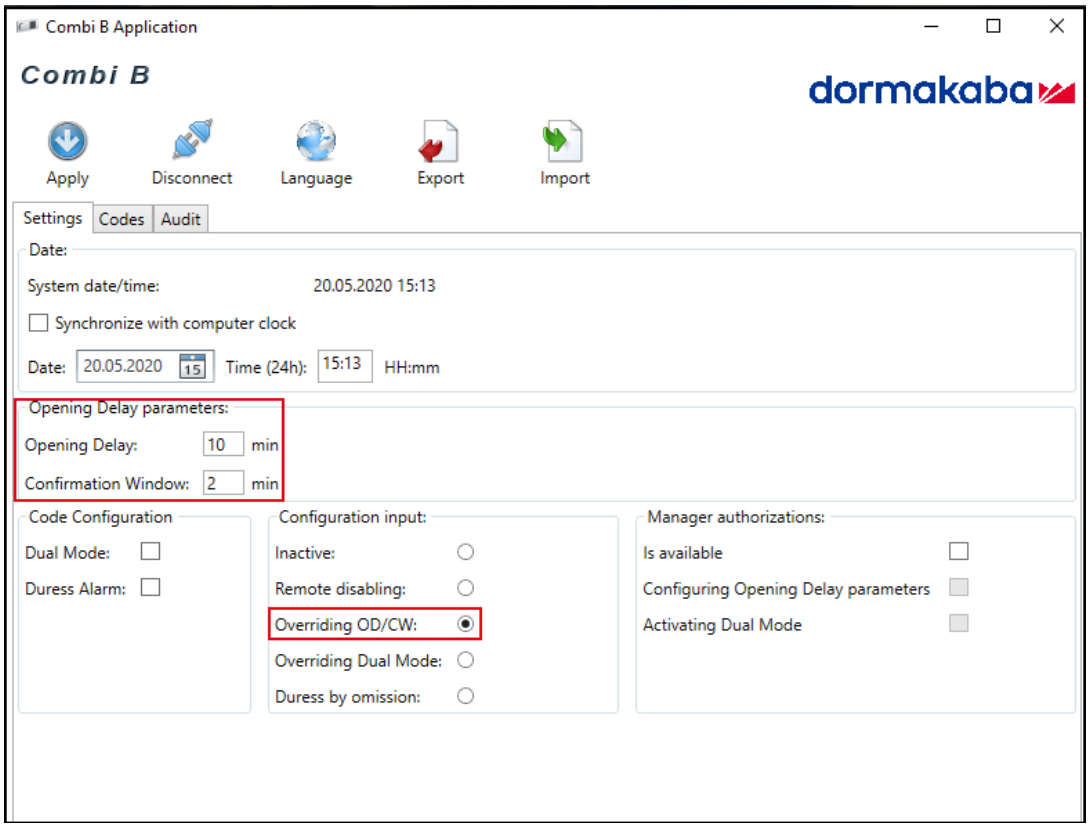
2. Click on **Apply**.



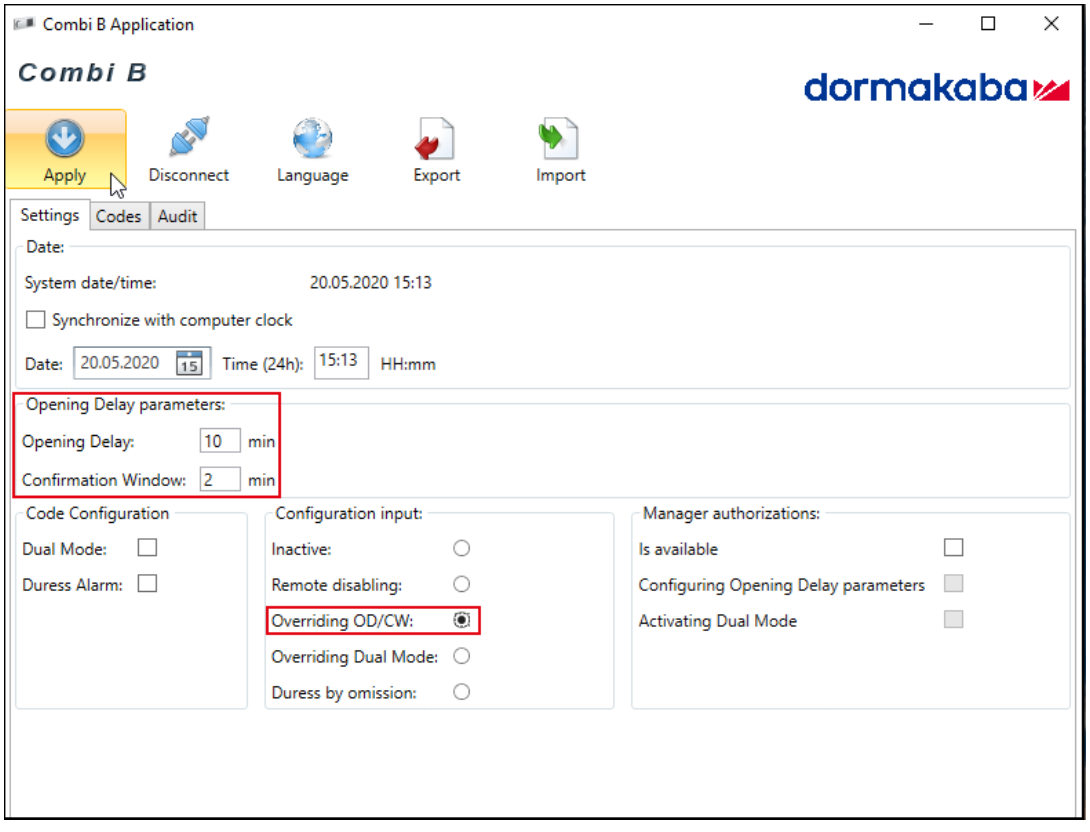
⇨ The function 'Remote disabling' is activated.

6.5.2.2 Overriding Opening Delay and Confirmation Window

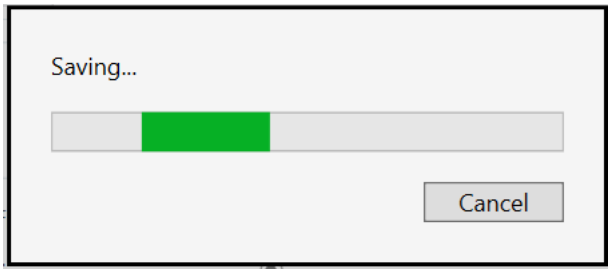
When the function 'Overriding Opening Delay and Confirmation Window' is activated and an input signal has been applied, any set Opening Delay and Confirmation Window will be overridden.



1. Select the checkbox 'Overriding OD/CW'.



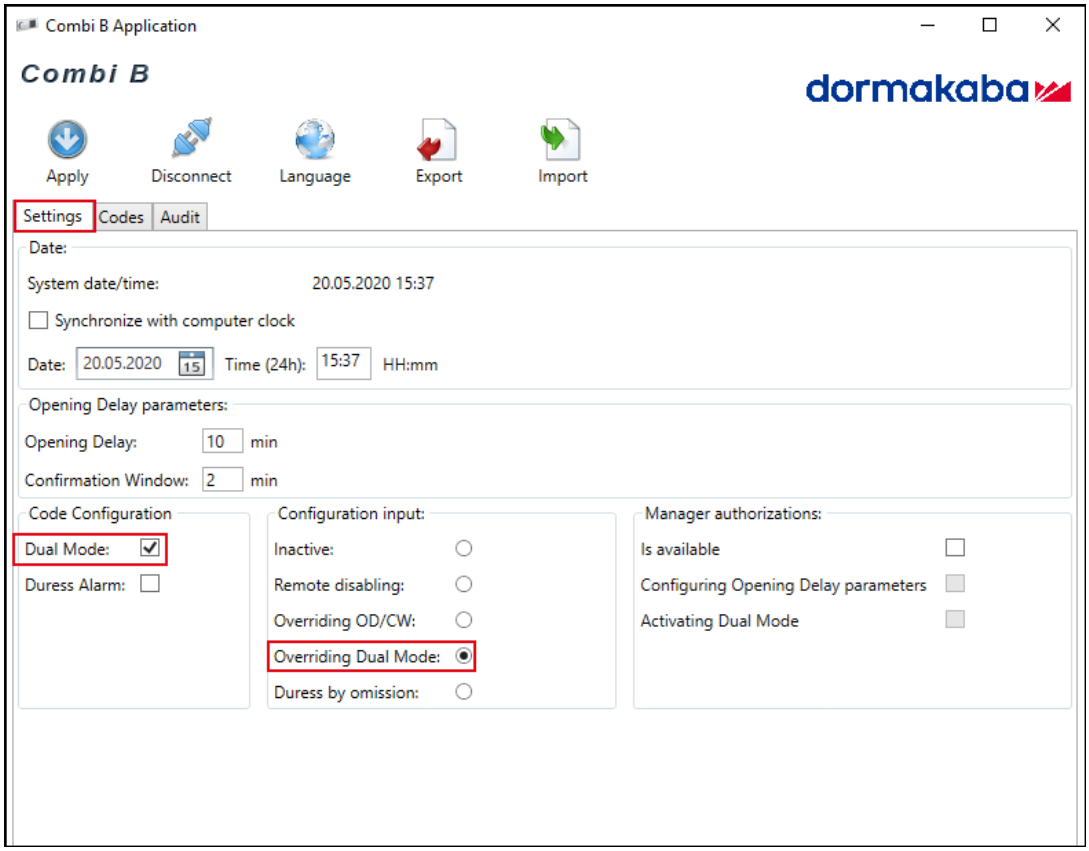
2. Click on **Apply**.



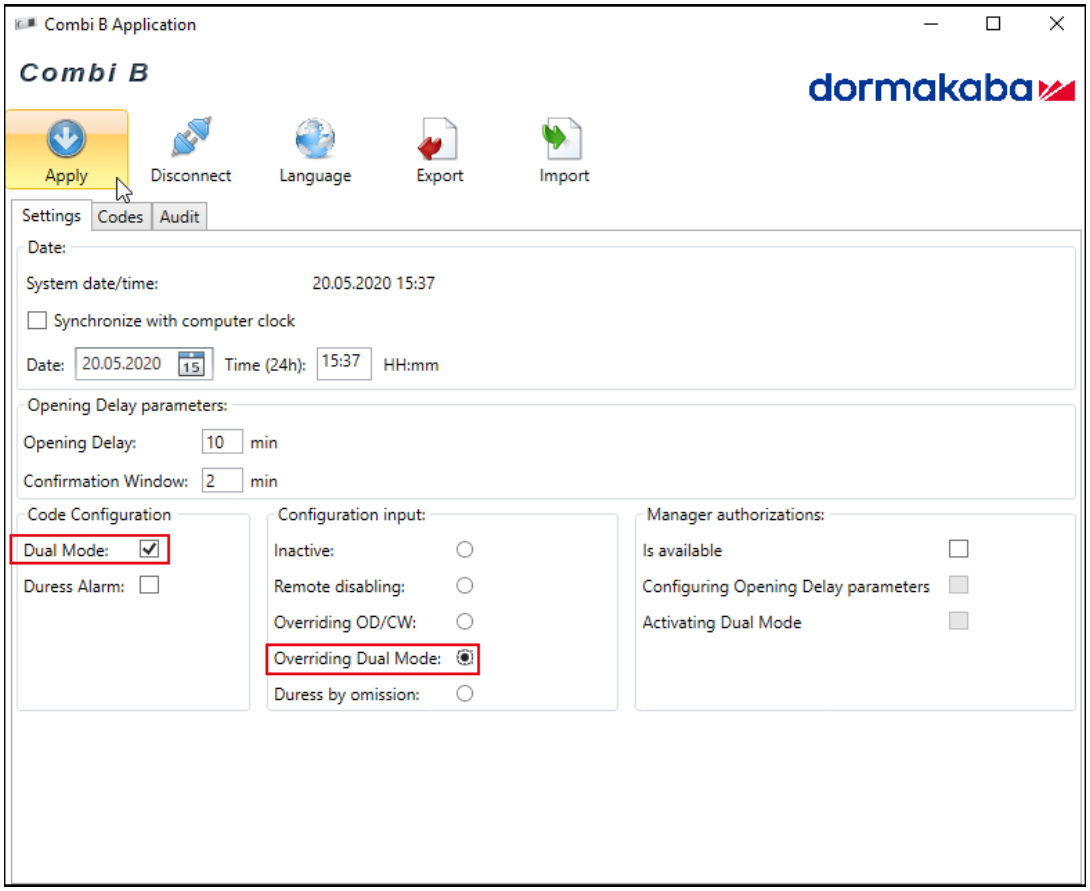
⇨ The function 'Overriding OD/CW' is activated.

6.5.2.3 Overriding Dual Mode

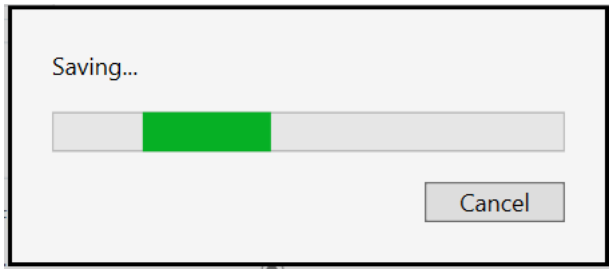
When the function 'Overriding Dual Mode' is activated and an input signal has been applied, the activated Dual Mode will be overridden and the lock can be opened in Single Mode. No second code is required.



1. Select the checkbox 'Overriding Dual Mode'.



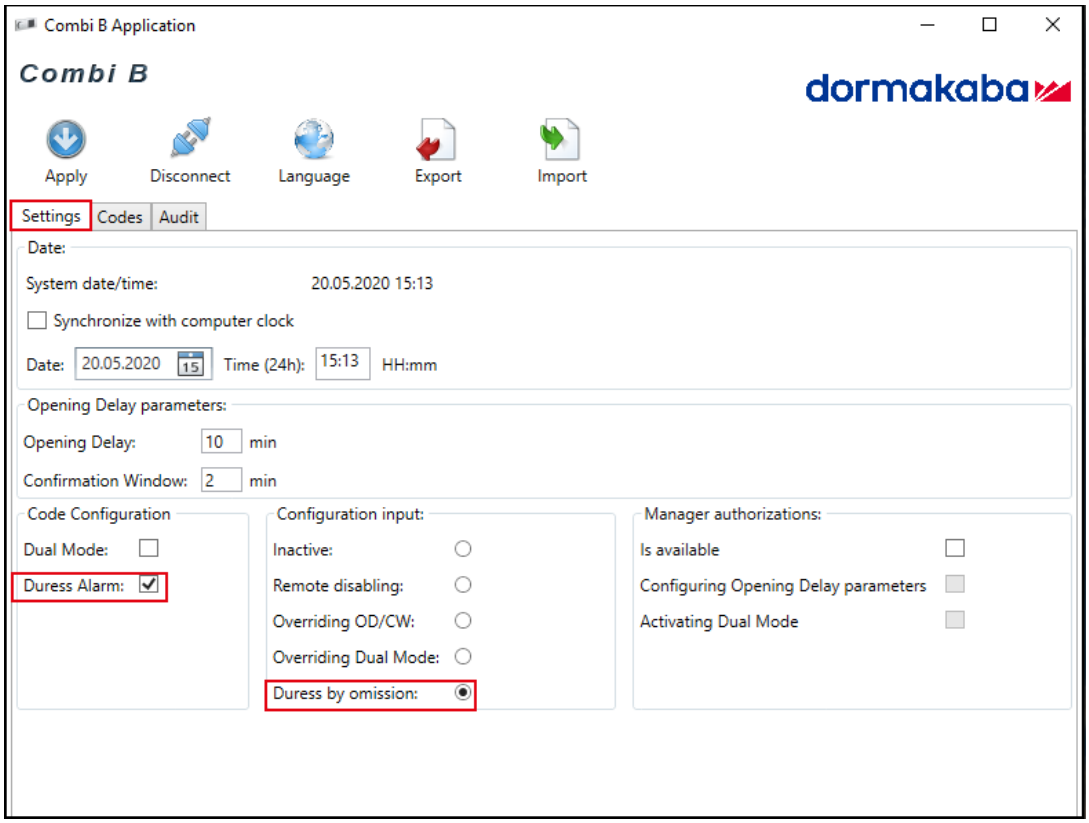
2. Click on **Apply**.



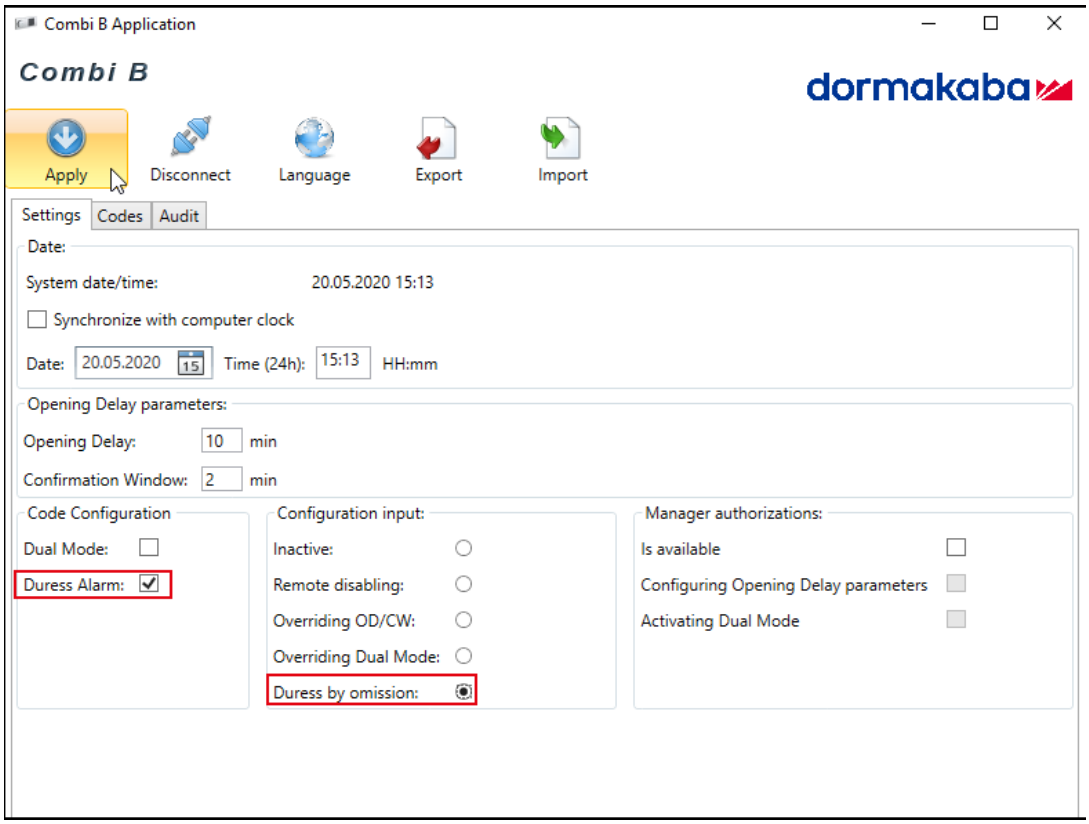
⇨ The function 'Overriding Dual Mode' is activated.

6.5.2.4 Duress by omission

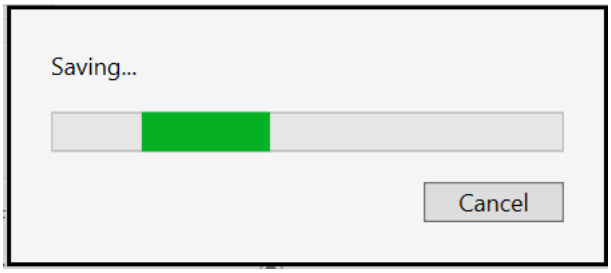
If the function 'Duress by omission' is activated and a code is entered, a Duress Alarm will be triggered. To prevent the lock from triggering a Duress Alarm, a constant input signal must have been applied at least 5 seconds before entering a code.



1. Select the checkbox 'Duress by omission'.



2. Click on **Apply**.



⇨ The function 'Duress by omission' is activated.

6.5.3 Codes

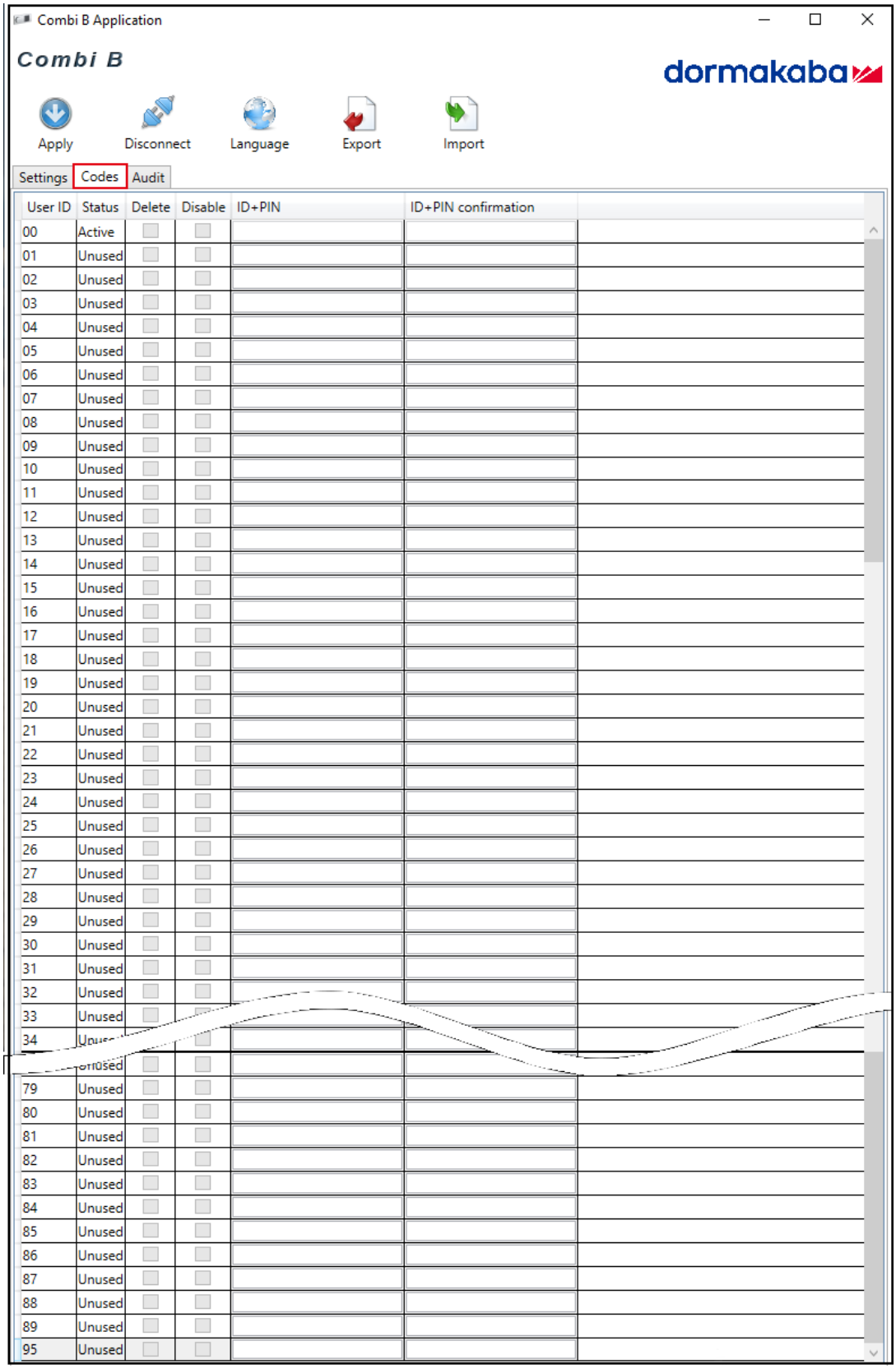
6.5.3.1 Activating and deactivating codes

2 audit entries are generated when a new code is assigned to an already added ('active') user. One entry for the old user code 'unused' and a second entry for the new user code "active".

There are 90 codes. 1 Master Code with the ID 00, 1 Manager Code with the ID 01 when the Manager is activated, 88 User Codes and 1 Courier Code with the ID 95.

If the Manager Code is not activated, there are 89 User Codes.

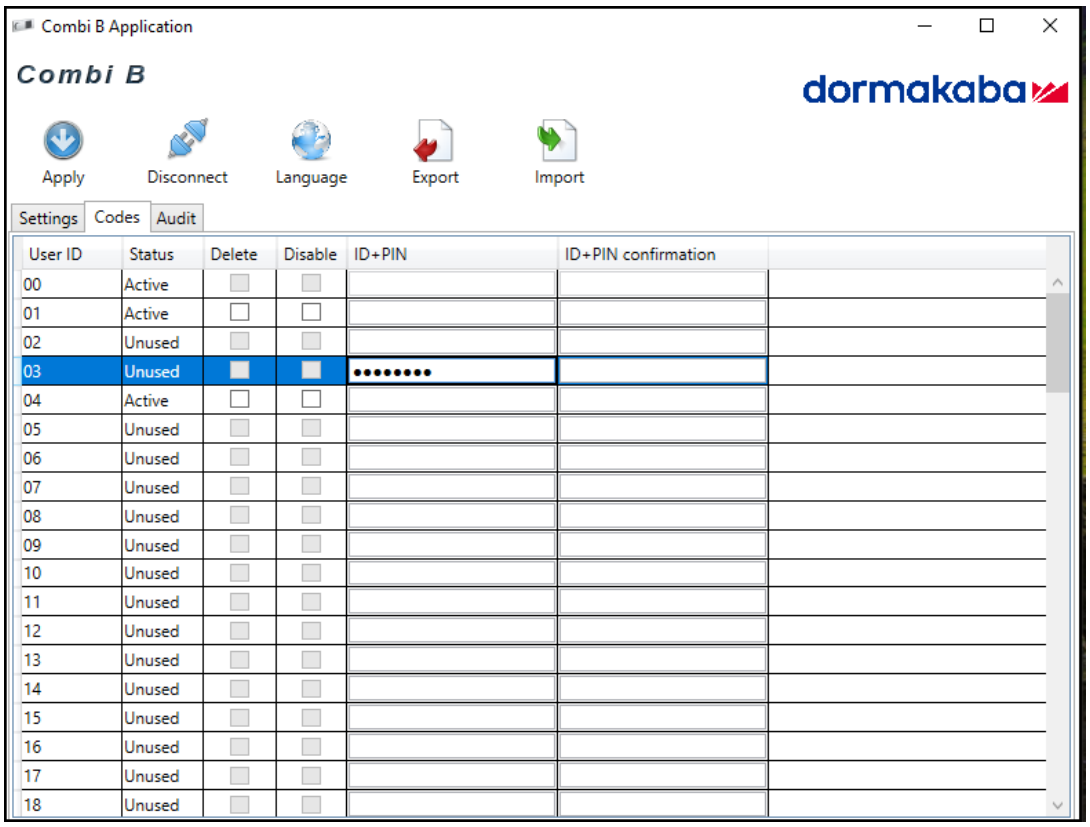
On the **Codes** tab it is possible to add, enable, disable and delete users.



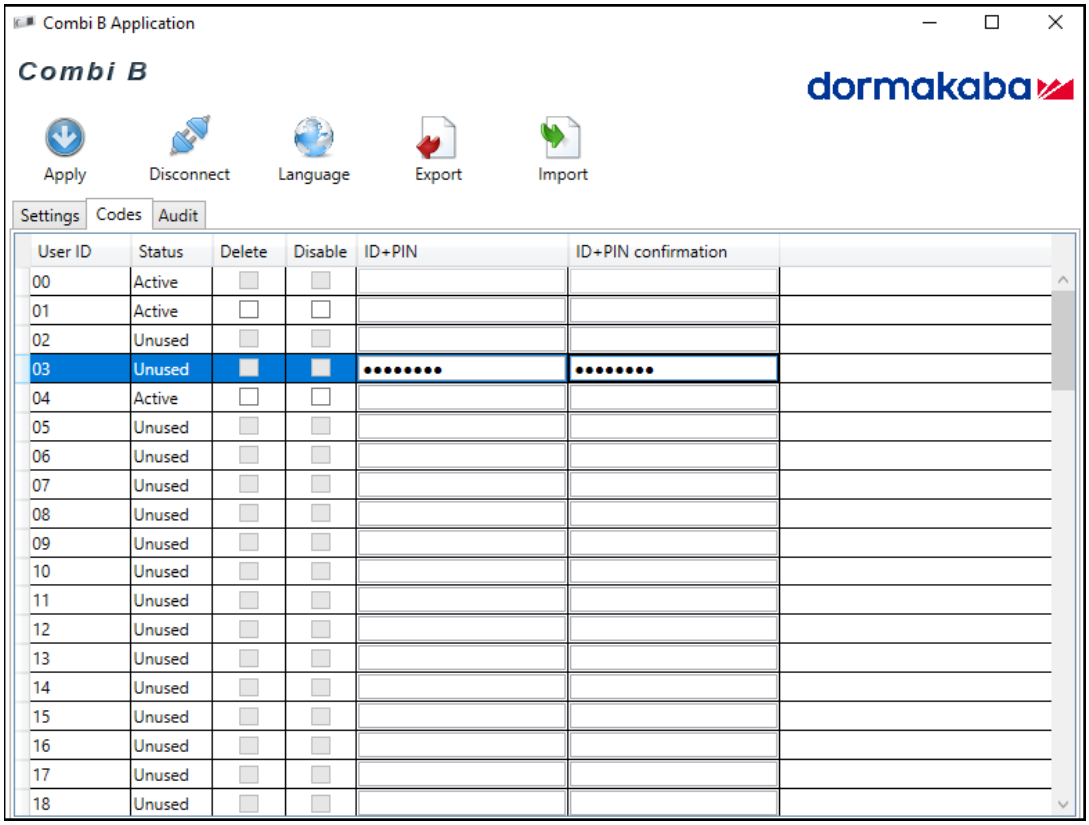
- The first column shows the user ID.
- The second column shows the current status of the users.
  - The status 'active' means that a code was assigned to a user.
  - The status 'unused' means that the respective user was either deleted or is unused.
- To disable or delete users, the function 'disable' or 'delete' must be selected in the check-box.

Activating codes

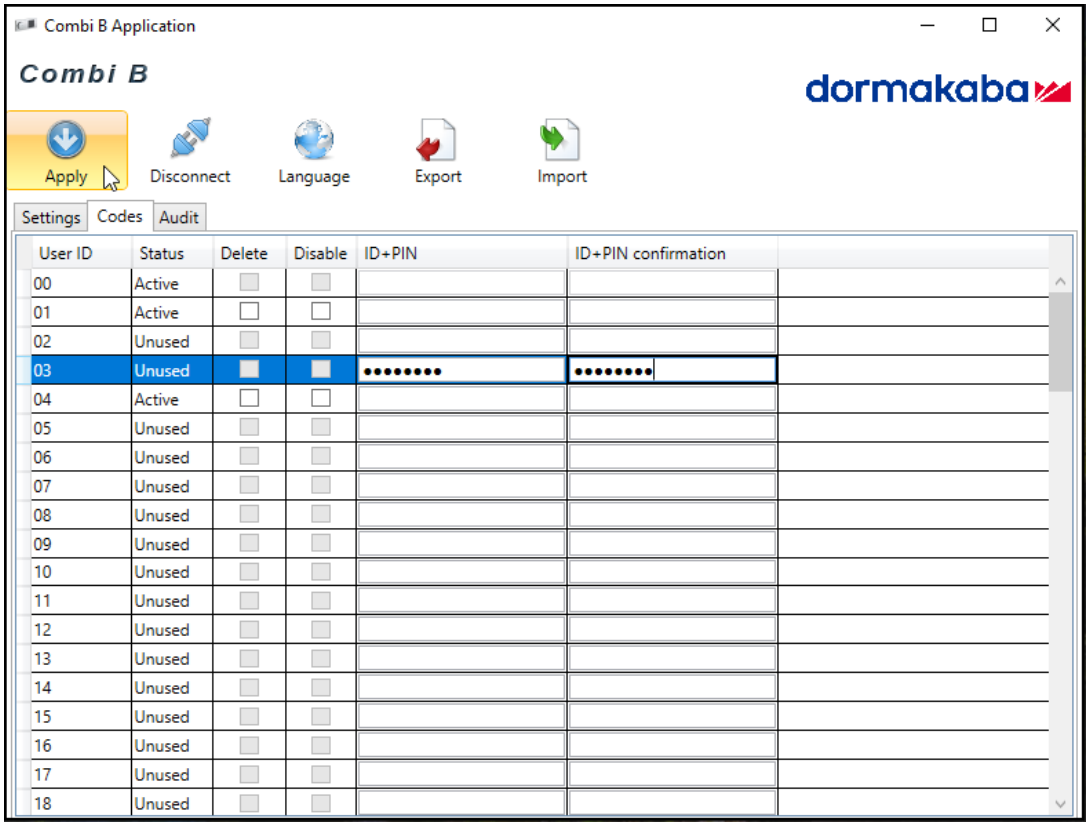
It is possible to change or cancel code entries or any selected function before clicking on **Apply**. Otherwise all selected settings will be transferred to the lock.



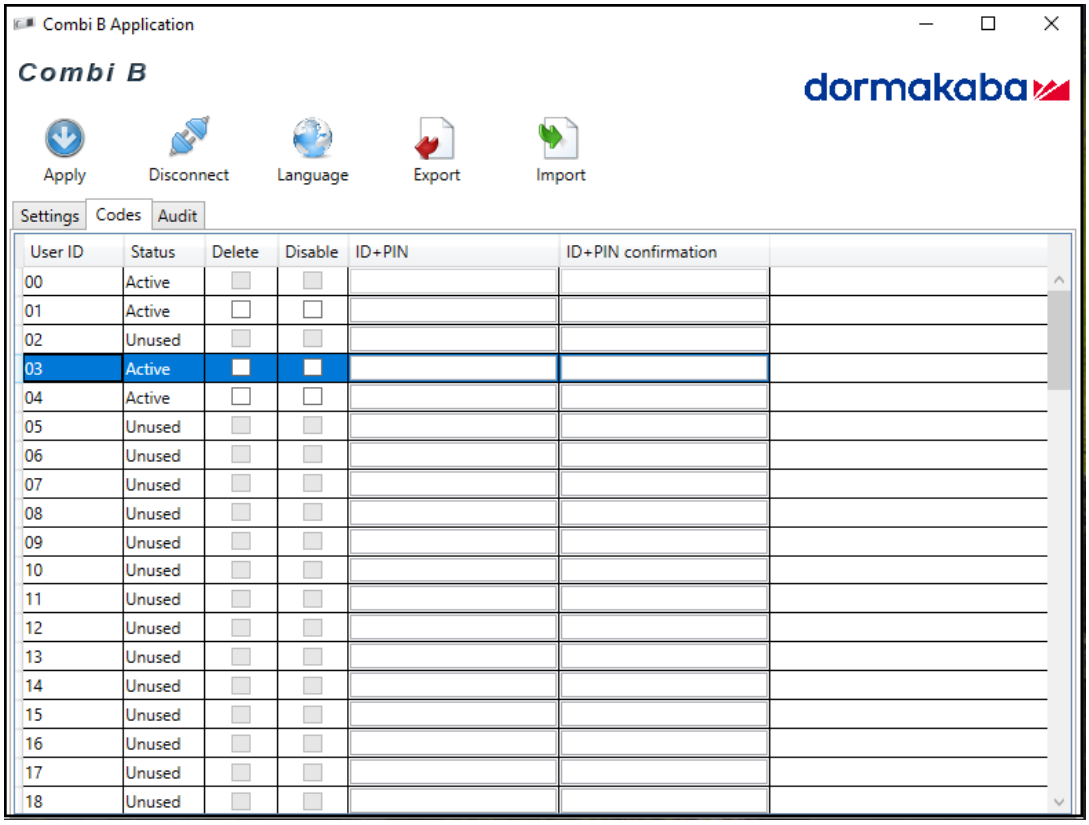
1. To add a user, enter a code combination consisting of the 2 digit ID of the respective code and 6 freely selectable digits.



2. Repeat the same code for confirmation.

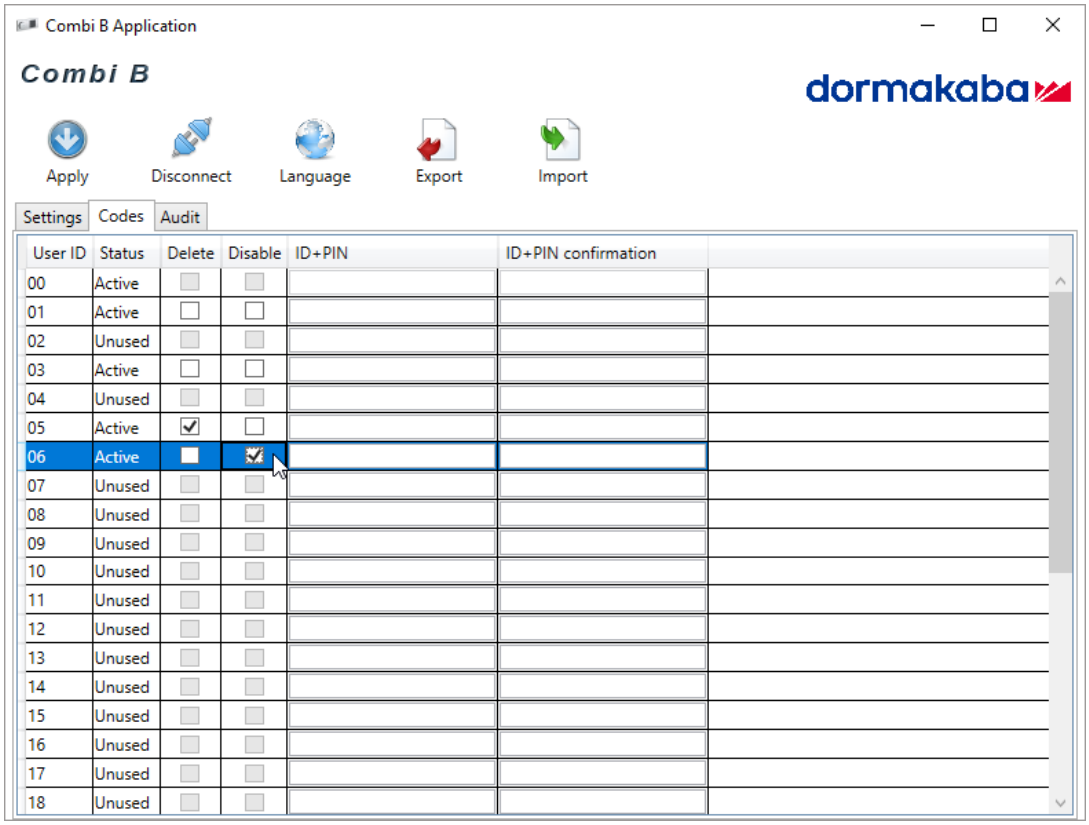


3. Click on **Apply**.

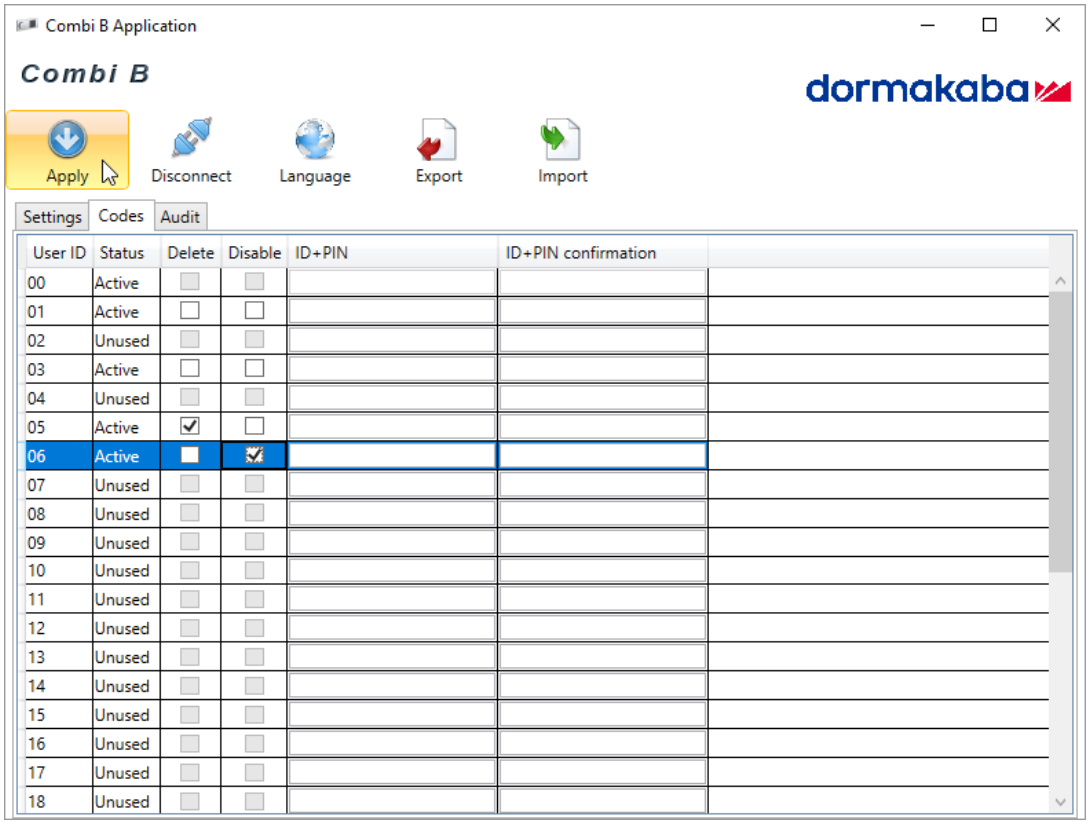


⇨ The user is now active.

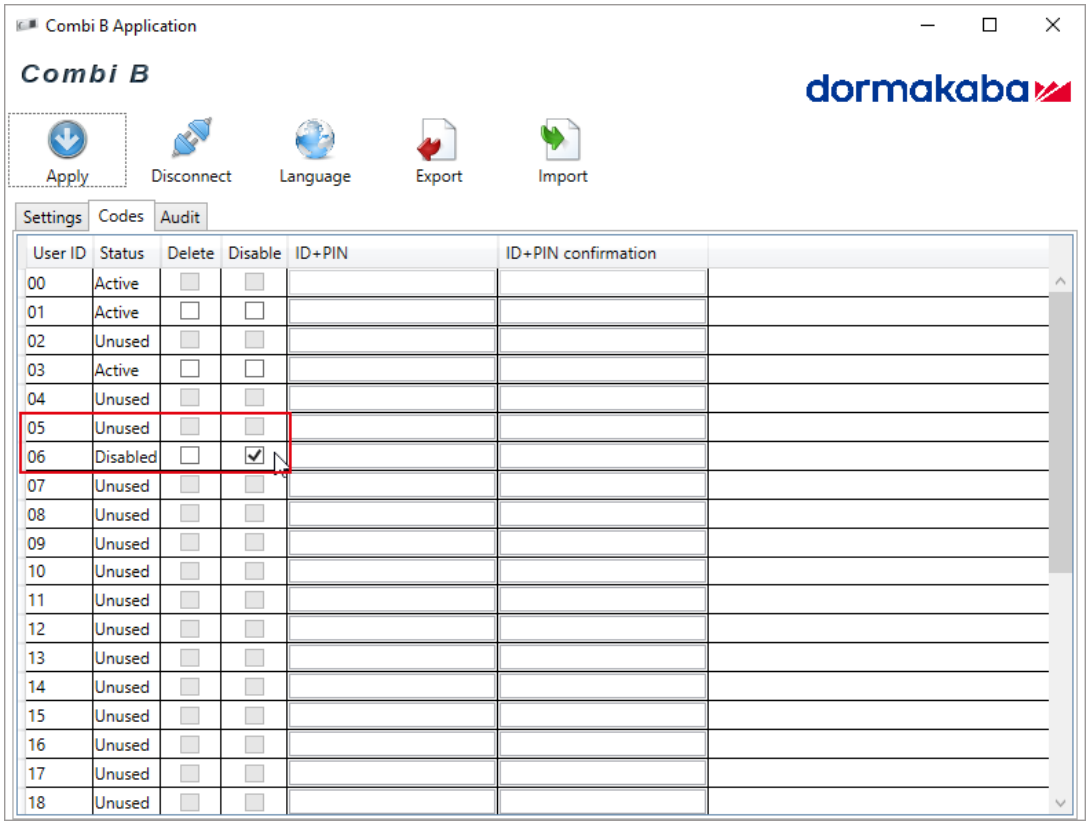
6.5.3.2 Deleting or disabling codes



1. Select the codes to be disabled or deleted in the checkbox.



2. Click on **Apply**.



⇨ The selected codes are now unused or disabled.

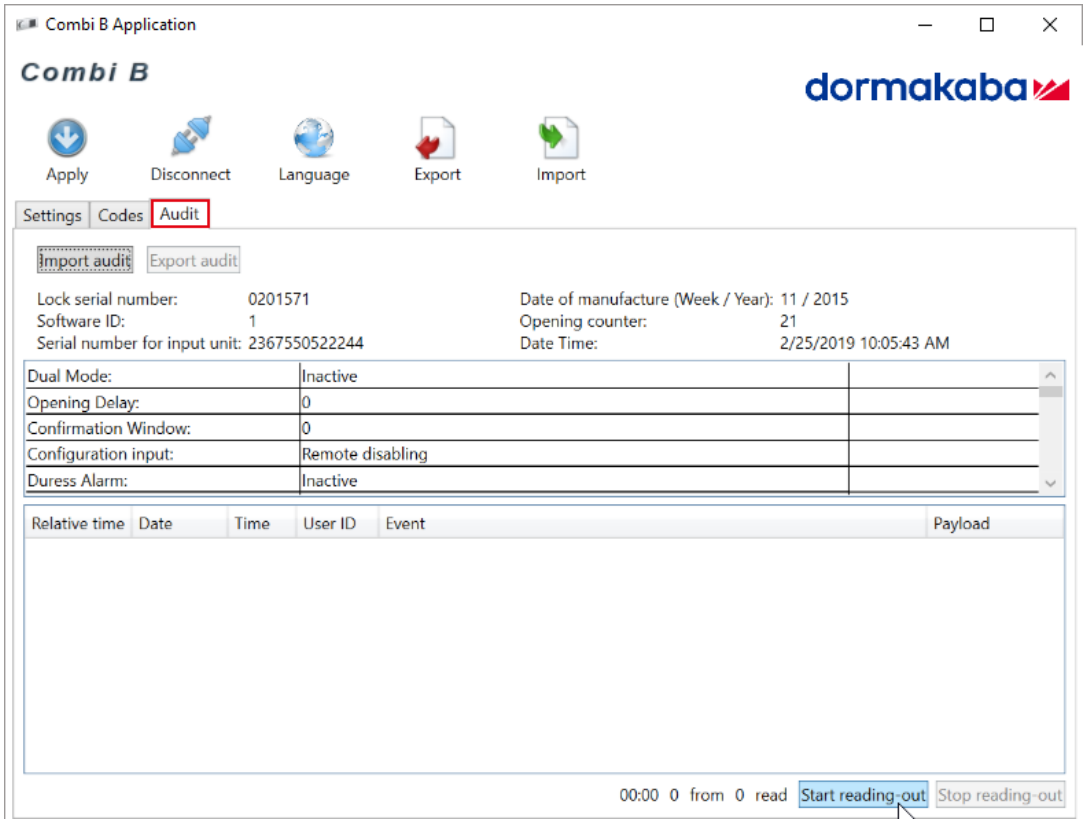
6.5.4 Audit

6.5.4.1 Reading-out audits

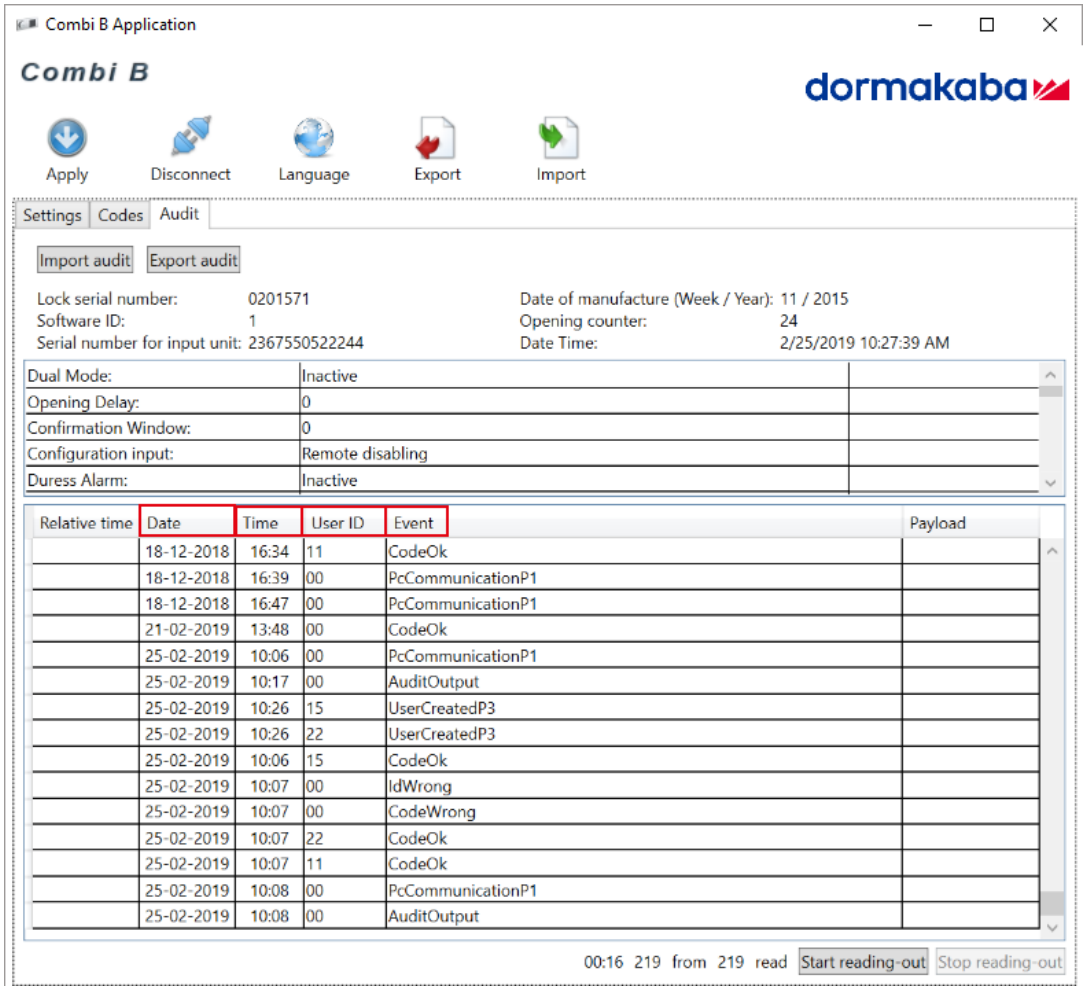
If during a battery change the lock remains de-energized for more than 1 minute, the time must be set again. If the time will not be set again, only the relative time will be saved in the audit.

If the clock of the lock is not set with one of the time functions either manually or automatically, no real time will be saved in the audit. A calculated relative time will be shown in the read-out.

The audit memory is the event memory of the lock which saves approximately 960 events regarding configuration or operation.



1. Click on **Start reading-out**.



In the generated audit the events are listed according to date, time and user ID.

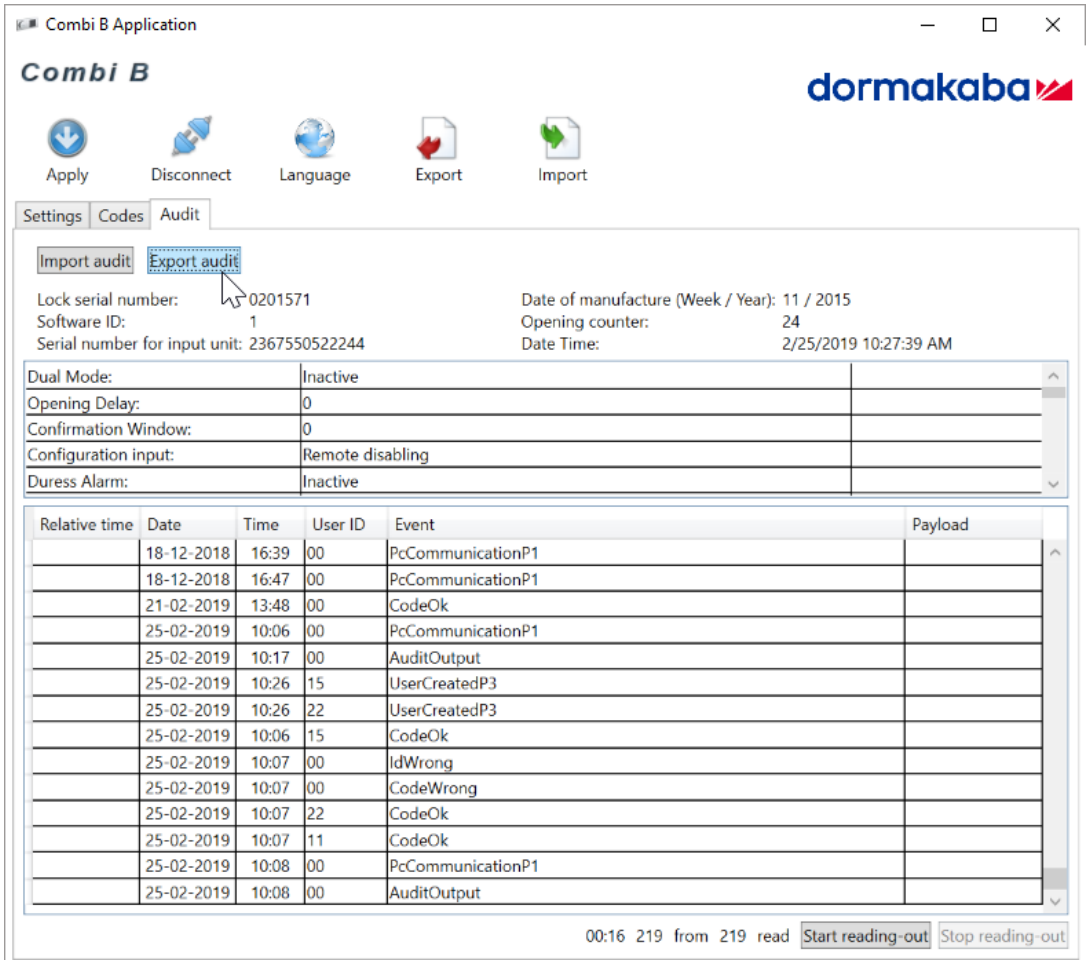
- The first column shows the 'Relative time'. This time is shown when the lock time settings do not correspond with the PC time settings. The 'Relative time' is calculated on basis of the PC time settings and only dates back to the last battery change. Earlier events will not have a time stamp.
- The second column shows the dates of each event listed in a time sequence starting with the oldest date and ending with the most current date.
- In the third column the time of each event is listed.
- The column 'User ID' shows which function was performed by which user.
- The column 'Events' lists all performed events.

Event	Description
Opened	The lock is opened.
OpenedByKey	The lock was opened with the emergency key.
CodeOK	The correct code was entered, but the lock was not opened.
CodeOkOvStart	The correct code was entered to start the Opening Delay.
CodeOKDuressAlarm	The Duress Code was entered.
DualCodeFirstOk	The first code was entered correctly.
DualCodeSecondOk	The second code was entered correctly.
CodeWrong	A wrong code was entered to open the lock.

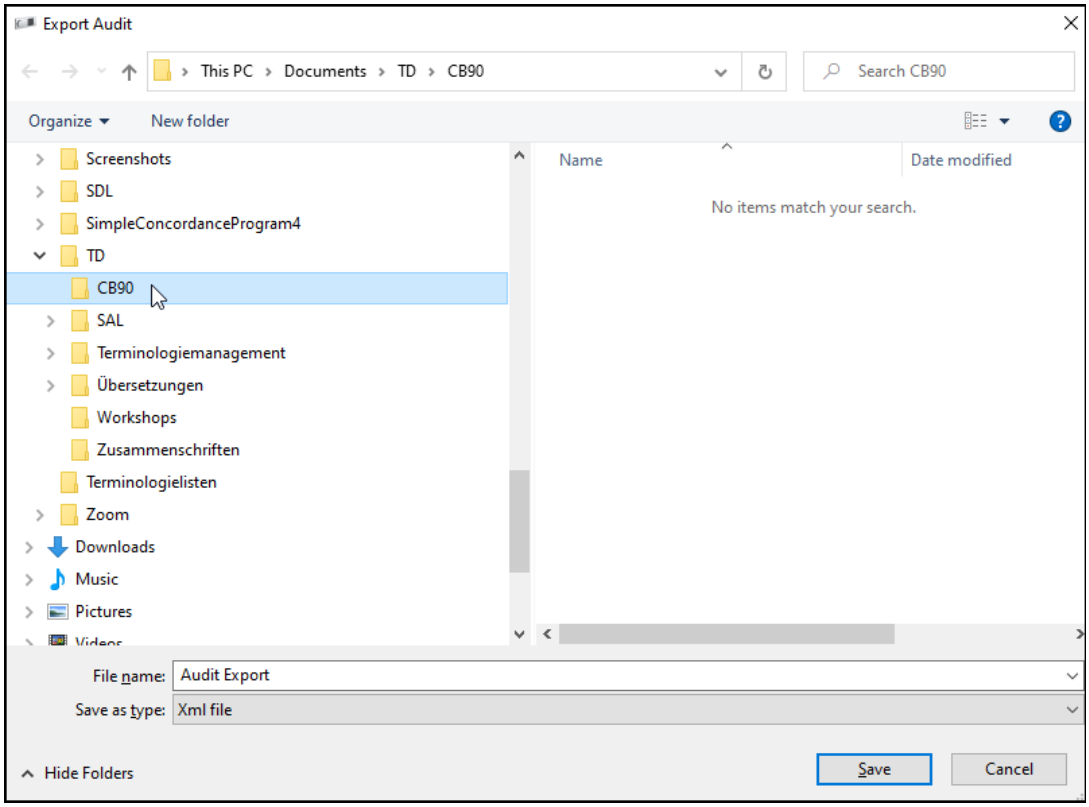
Event	Description
IdWrong	A user tried to open the lock with no activated or existing ID.
Closed	The lock is closed.
AhkNeutralizedP9	The pick-up contact message has been reset.
AhkSet	The pick-up contact has been set.
AuditOutput	The audit was read-out.
BlockingPeriod1	Blocking period 1 (1 minute blocking time was triggered).
BlockingPeriod2	Blocking period 2 (2 minutes blocking time was triggered).
BlockingPeriod4	Blocking period 4 (4 minutes blocking time was triggered).
BlockingPeriod8	Blocking period 8 (8 minutes blocking time was triggered).
BlockingPeriod16	Blocking period 16 (16 minutes blocking time was triggered).
CodeStateRequestedP6	The code status request was activated (P6) .
ConfirmationWindowOpeningDelayP2	The Opening Delay was changed (P2).
DualCodeDisabled	The Dual Mode was disabled (P7).
DualCodeEnabled	The Dual Mode was enabled (P7).
ExternalPowerAvailable	External power available.
ExternalPowerNotAvailable	No external power available.
PcCommunicationP1	The PC communication mode was activated on the lock (P1).
DuressAlarmDisabled	The Duress Alarm was disabled (P8).
DuressAlarmEnabled	The Duress Alarm was enabled (P8).
UnderVoltage	Battery low voltage.
MasterCreatedUserP3	The master created a user (P3).
MasterActivatedOrDeactivatedUserP4	The master activated or deactivated a user (P4).
MasterDeletedUserP5	The master deleted a user (P5).
MasterChangedPermission	The master changed the authorization of the manager.
TimeWasChangedORSet	The time was changed or set.
ManagerCreatedUserP3	The manager created a user (P3).
ManagerActivatedOrDeactivatedUserP4	The manager activated or deactivated a user (P4).
ManagerDeletedUserP5	The manager deleted a user (P5).
ManagerChangedTimeDelay	The manager changed an Opening Delay.
ManagerLocksDualCode	The manager deactivated the Dual Mode.
TimeDelayAbort	Cancellation of Opening Delay.

6.5.4.2 Exporting audits

After the process of reading-out is finished, it is possible to export the audit as TXT or XML file or as an encrypted non-changeable CBE format.

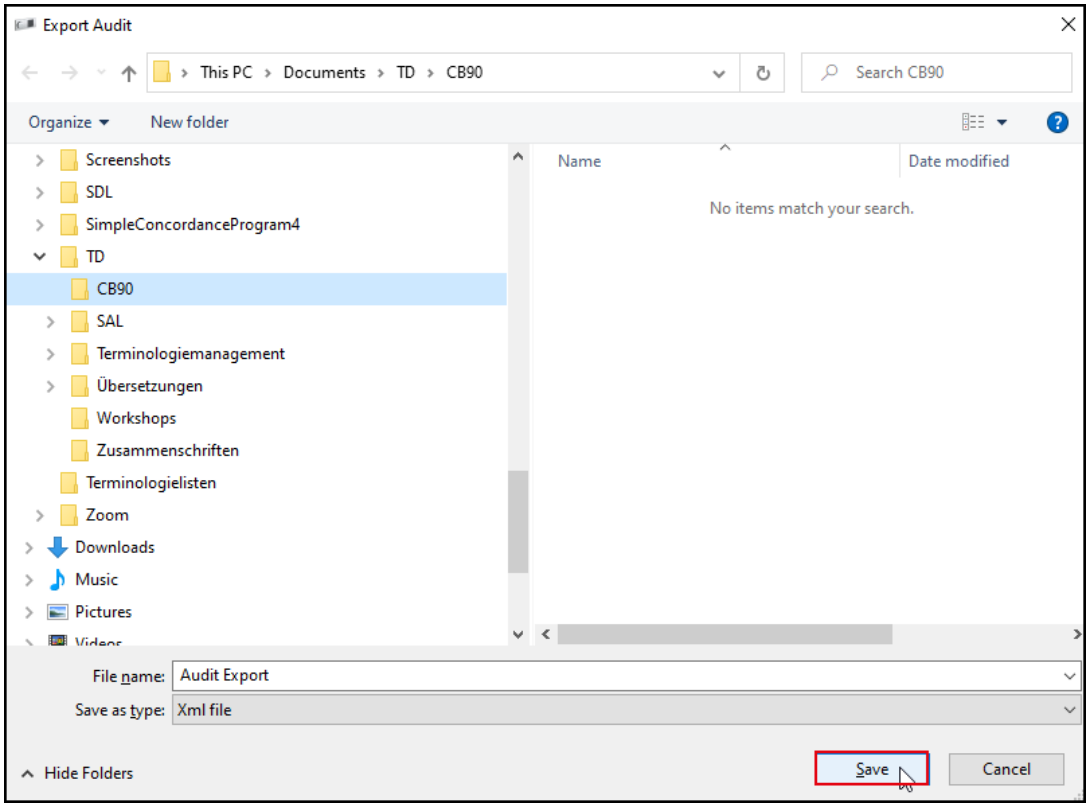


1. Click on **Export audit**.



⇨ A window opens to select the storage path.

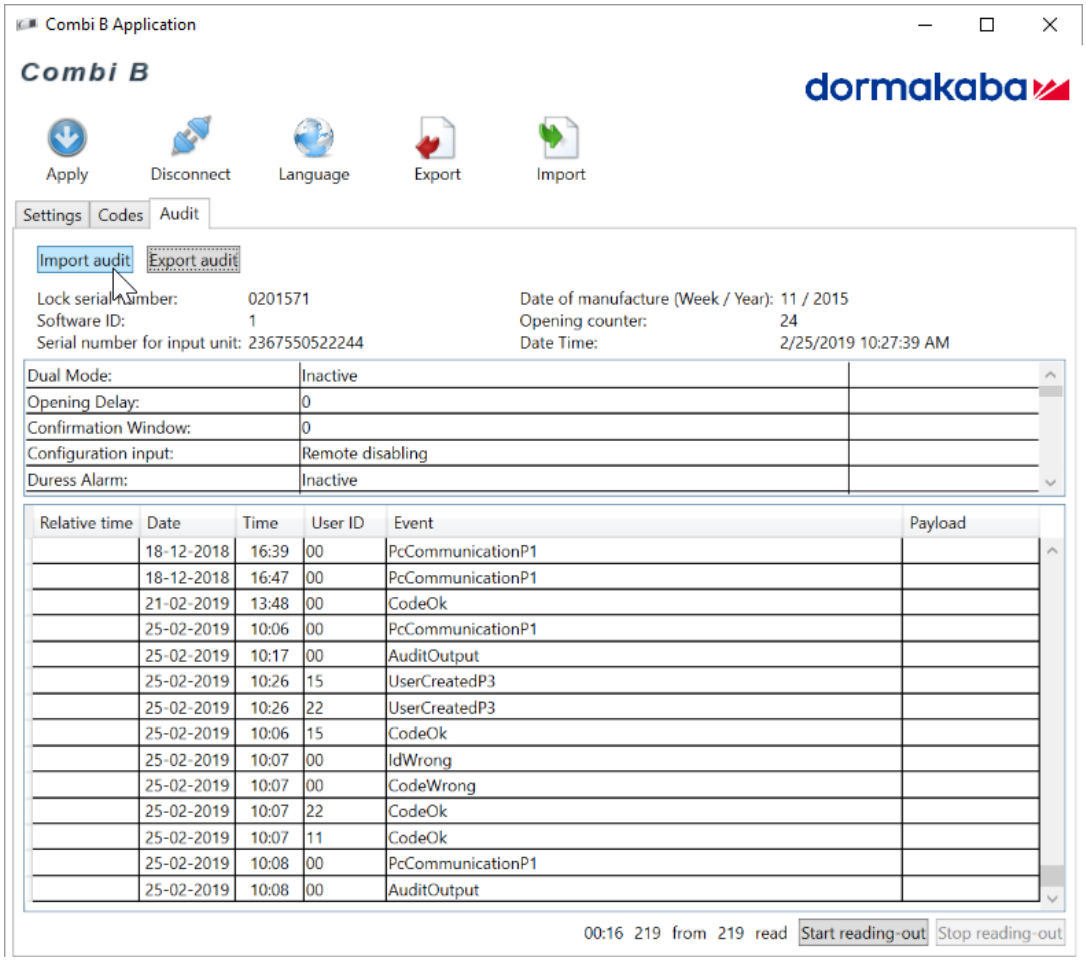
2. When the selected storage path has been set, a name must be given for the audit export.



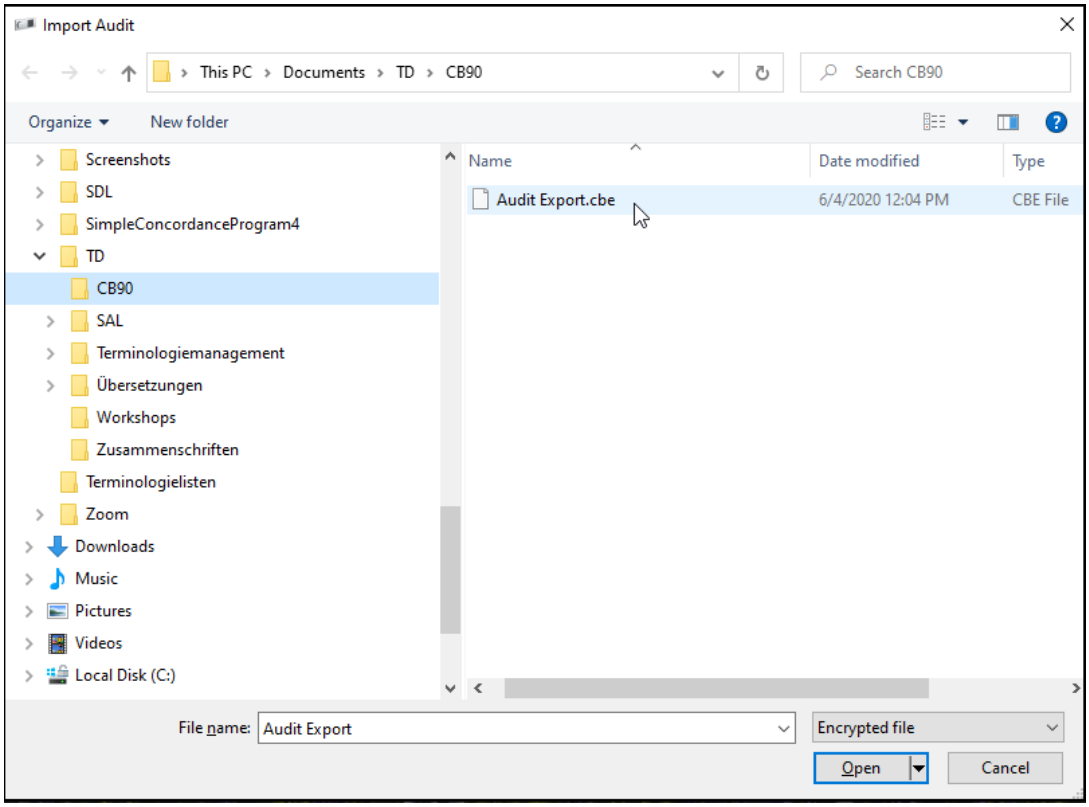
3. Click on **Save** to save the audit export as an encrypted CBE format.

6.5.4.3 Importing audits

Whenever necessary, it is possible to import the encrypted CBE format of the audit in the software.

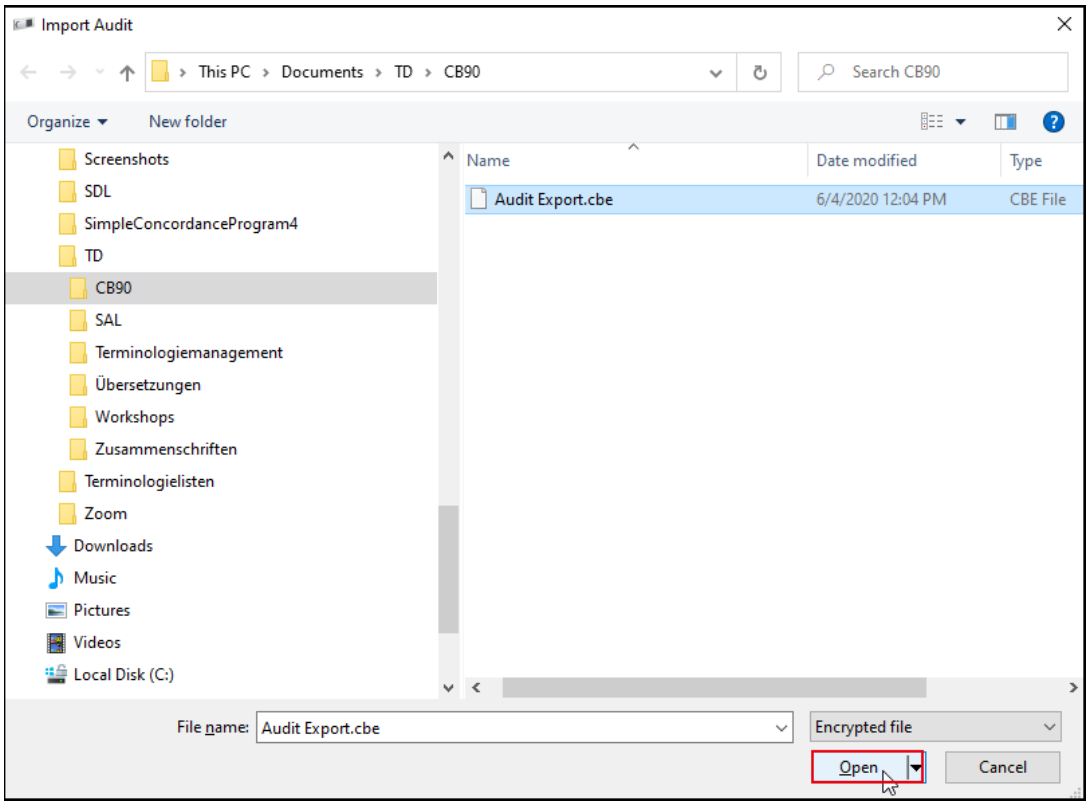


1. Click on **Import audit**.



⇨ A window opens to select the storage path.

2. When the selected storage path has been set, select the CBE file with the audit export.

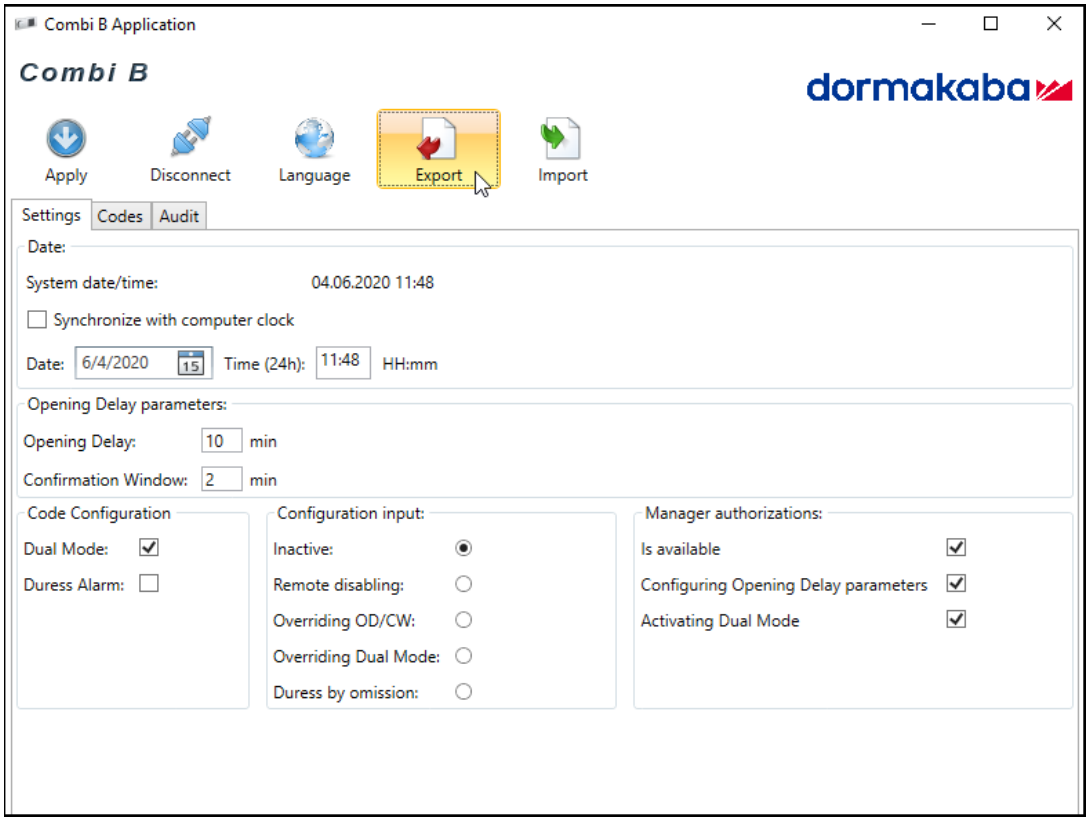


3. Click on **Open** to load the audit export.

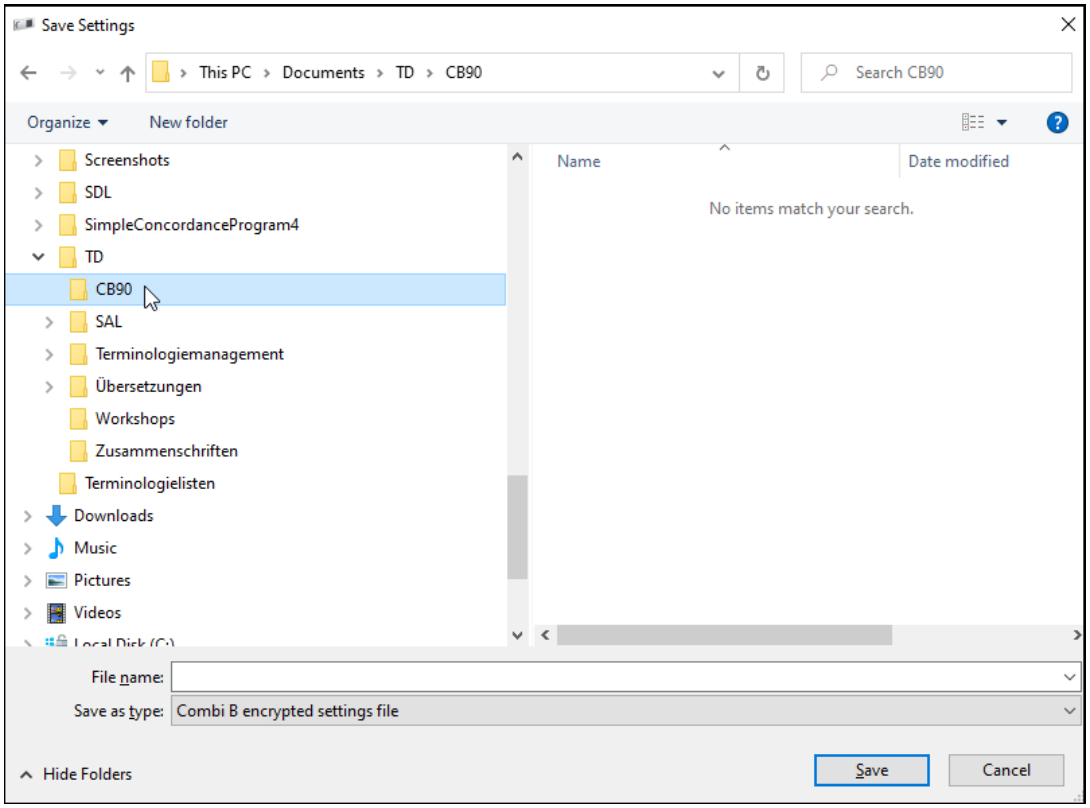
⇨ The TXT or XML format can be evaluated in other software.

6.6 Exporting a configuration

Keep in mind that it is not possible to save codes.

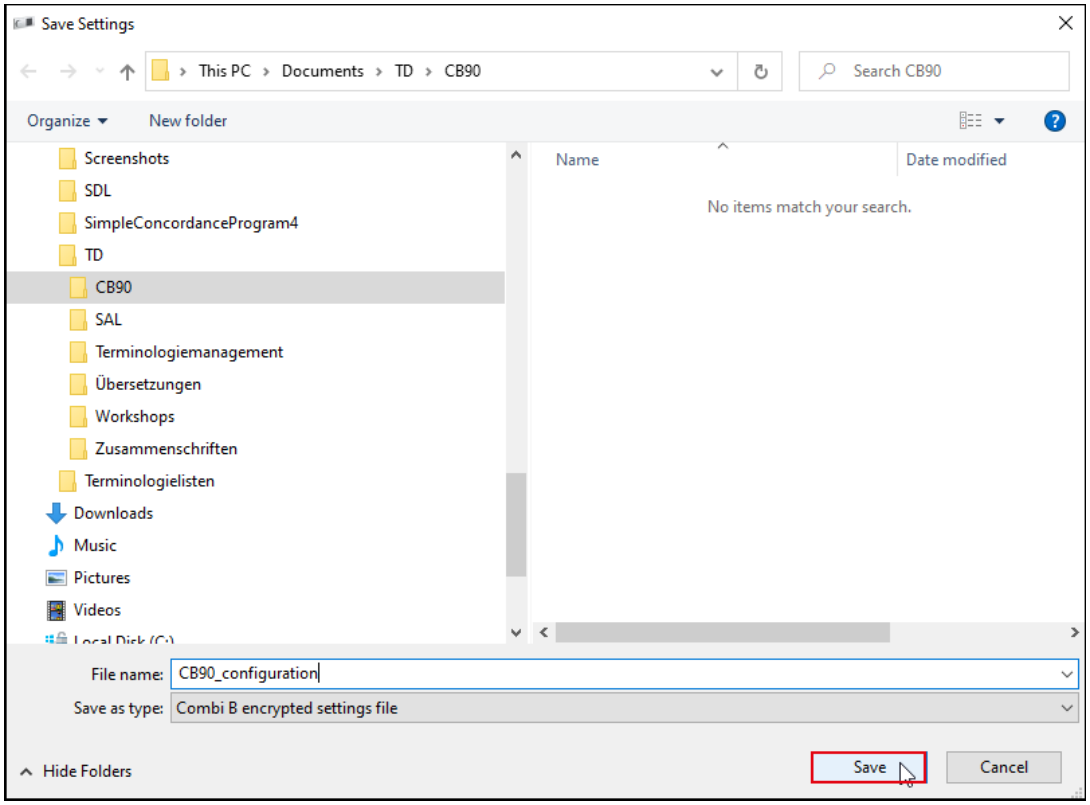


1. Click on **Export**.



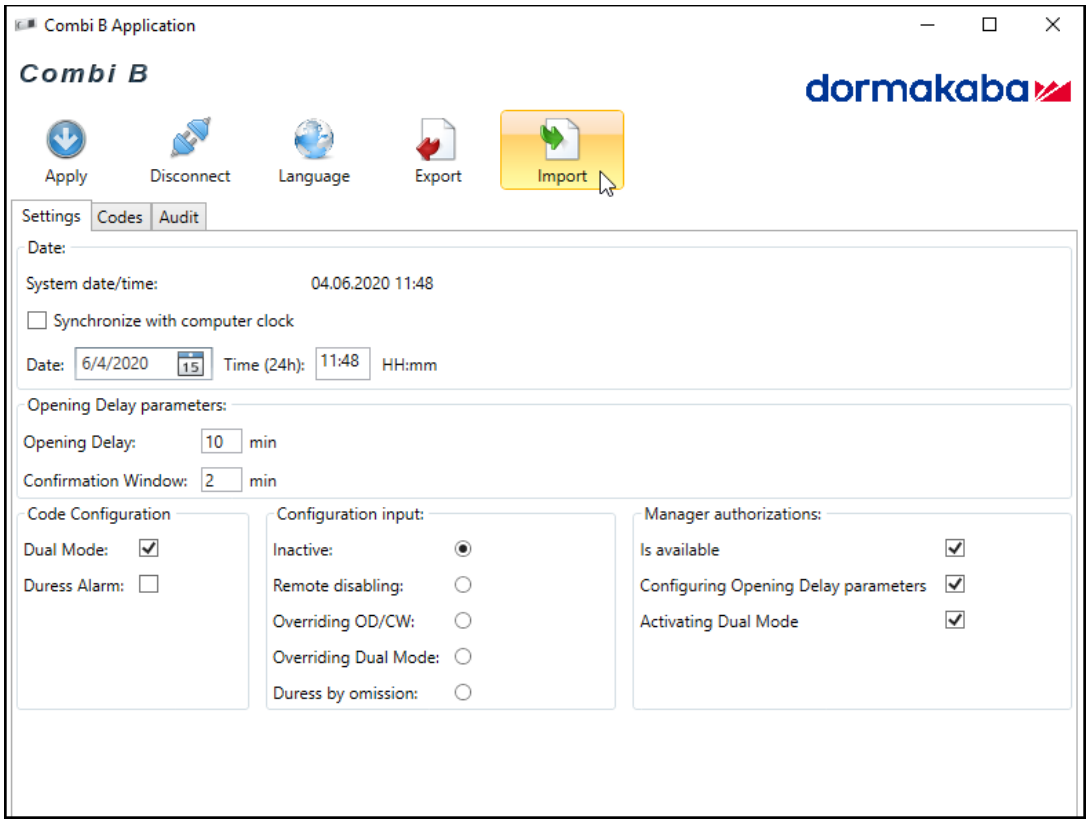
⇨ A window opens to select the storage path.

2. When the selected storage path has been set, a name must be given for the configuration.

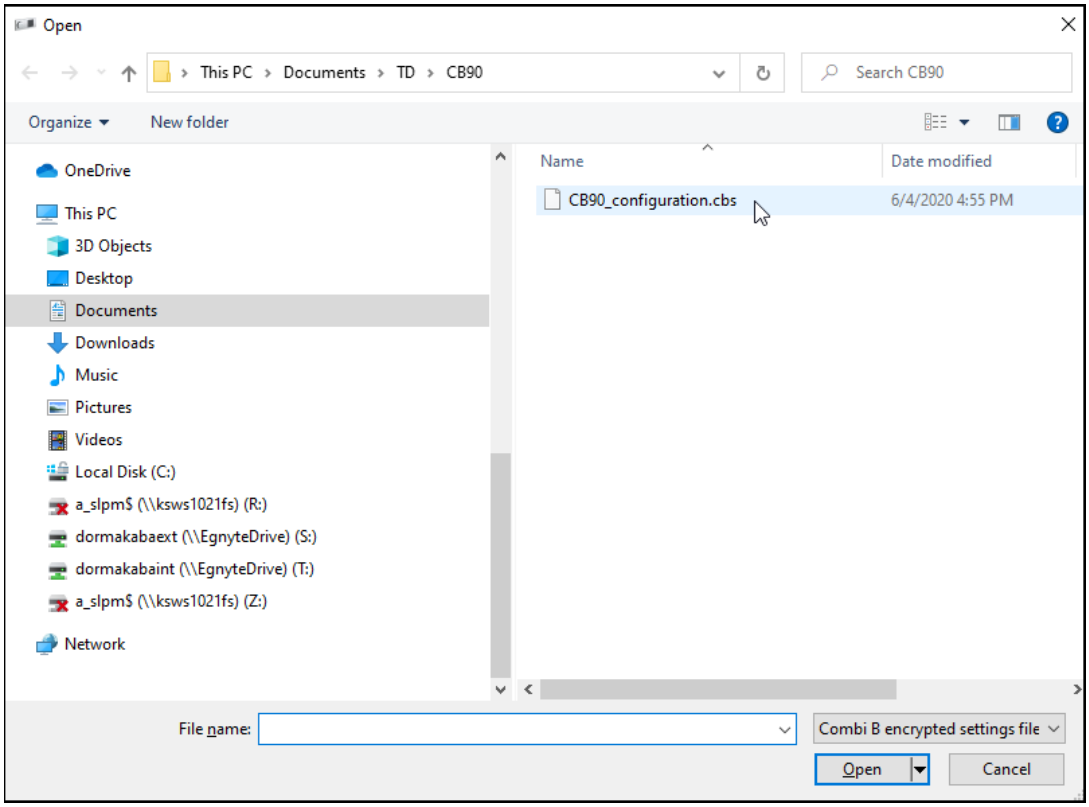


3. Click on **Save** to save the configuration as an encrypted CBS format.

6.7 Importing a configuration

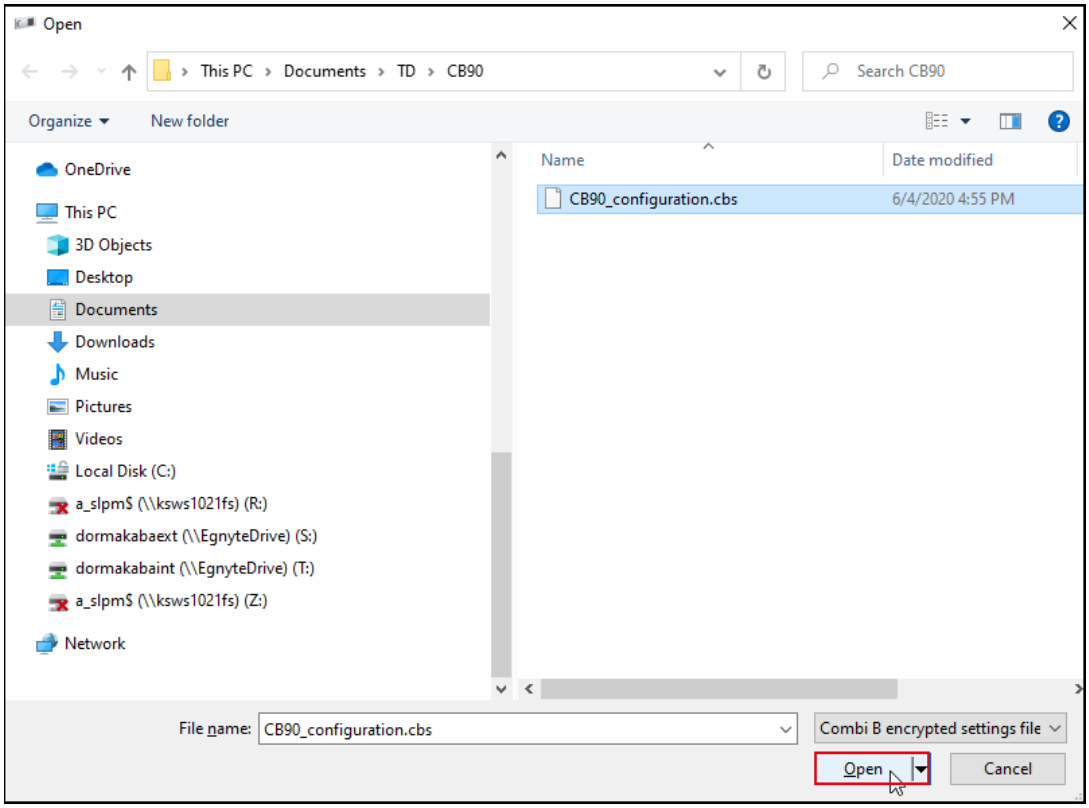


1. Click on **Import**.



⇨ A window opens to select the storage path.

2. When the selected storage path has been set, select the desired configuration as CBS format.



3. Click on **Open** to load the configuration.

6.8 Partial commissioning of the lock

Partial commissioning is a process in which a configuration is written in the lock without activating its functions. A precondition is that the lock is in factory mode and a programming software is available.

The desired configuration is generated or imported and transferred to the lock. The lock still opens when the Setup Code is entered.

Partial commissioning has the advantage that it is possible to transfer the configuration but the lock must still be opened with the Setup Code during installation and for test purposes.

As long as there is no Master Code, the preset configuration is not active. If the lock is configured for partial commissioning, all configured settings must be documented and the customer must be informed.

7 Troubleshooting

Error message	Cause	Solution
Startup view: No CB30 USB device available.	USB adapter cable is not plugged in the PC. USB adapter cable is damaged.	Plug the USB adapter cable in the PC. Call the vendor for technical support.
There is no valid license programmed on the dongle for the Combi B application.	The software protection dongle is not plugged in the PC. There is no valid Combi B 90 license on the software protection dongle.	Plug the software protection dongle in the PC. Call the vendor for technical support.
Pay attention that lock configuration is only possible if the programming mode is activated. Enter the following keys to activate the programming mode: P + 00 + Master PIN + Enter + P + 1 + Enter	USB adapter cable is not plugged in the input unit.	Plug the USB adapter cable in the input unit.
	The connection to the input unit is interrupted.	1 Remove the USB adapter cable from the PC. 2 Restart the program. 3 Reset the lock to factory settings by pressing "PP".
Not in programmming mode, enter a valid Master PIN!	Lock is not in programming mode. The Master Code was not entered.	1 Enter in programming mode. 2 Enter a valid Master Code.
		1 Open the lock with the emergency key. 2 Enter in programming mode.
Master PIN is invalid!	The Master Code was not entered correctly.	Enter the correct Master Code.
Not enough active users for Dual Mode.	No second valid code was entered.	Enter a second valid code.
An Opening Delay needs a Confirmation Window!	There is no defined value for the Confirmation Window. There is no defined value for the Opening Delay.	1 Enter a defined value to set the Confirmation Window. 2 Cancel the operation. 3 Enter a defined value to set the Opening Delay.
Confirmation PIN does not match with first PIN!	The code confirmation does not match with the first entered code.	Confirm the first entered code by repeating the same code again.