EUCHNER

Software Manual

Copy Key Tool

Application Software

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1. General notes

1.1. Use of the manual

This manual describes the function and use of the Copy Key Tool application software in the following versions:

Version	Order no.	Version	Usage period
Copy Key Tool Demo	8000210	V1.0.0	90 days
Copy Key Tool	8000200	V1.0.0	Unlimited

1.2. Scope

Important!

- Make sure to use the operating instructions valid for your product version. Please contact the EUCHNER support team if you have any questions.
- Your software may have been updated. Make sure that the software documentation corresponding to the update is available and is observed.

1.3. Requirement for the user

Proper use of the Copy Key Tool application software requires knowledge about handling the Electronic-Key-System EKS2.

1.4. System requirements

Hardware:	Standard PC
Operating system:	Windows® 10, 64-bit
	Windows® 11
Software:	CodeMeter User Runtime for Windows from version 8.40 from WIBU-SYSTEMS AG

1.5. Use of brand names

Microsoft Windows® is a registered trademark of Microsoft Corporation.

MIFARE® DESFire® is a registered trademark of NXP Semiconductors.

2. General function of the application software

The Copy Key Tool application software is used for copying EKS2 Electronic-Keys on a standard PC. The software is used in combination with the EKS2 programming station.

The prerequisite for the copying process is that a Master Copy Key has been created the as the template in the Electronic-Key-Manager EKM2 application software.

The following transponders can be written:

System	Transponder
Electronic-Key-System EKS2	Electronic-Key EKS2 with MIFARE® DESFire® transponder

You will find further information about writing data to the transponders in the following manuals:

Document	Document number
Electronic-Key-Manager EKM2 software manual	MAN20001766
Operating instructions, EKS2 programming station	MAN20001744

The documents can be downloaded from www.euchner.com. Enter the document number in the search box.

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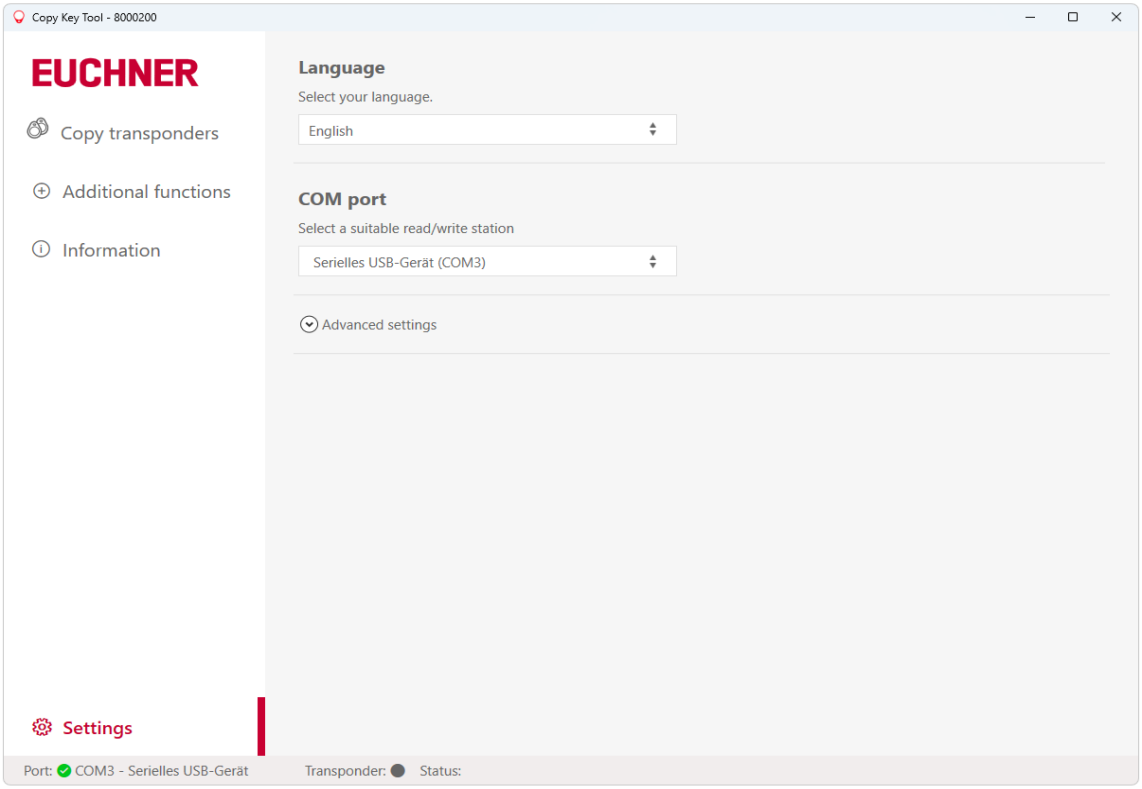
3. Installing Copy Key Tool and starting it for the first time

Important!

You will require the CodeMeter Runtime from WIBU-SYSTEMS AG to use the Copy Key Tool application software. You will find further information in our license document.

1. Use the supplied link to download the ZIP folder of the Copy Key Tool application software, then unzip it and save it to a local directory on the PC.
2. Run the *CopyKeyTool.exe* application.

➡ The *Settings* window appears.



3. Select your language.
4. Connect the EKS2 programming station to the PC and select the COM port to which the programming station is connected.

➡ The connection to the programming station is established.

Important!

- Whenever the program is started again, the *Copy transponders* menu item will display the window.
- If you would like to change the settings after starting the program for the first time, select the *Settings* menu item in the navigation area.

4. Copying transponders

Prerequisite:

- A Master Copy Key has been created using the Electronic-Key-Manager EKM2 application software.
- The transponders to be written are unwritten. It might be necessary to reset them to the factory settings first, see *7. Reading and resetting transponders on page 6*.

1. Open the *Copy transponders* menu item.
2. Bring the Master Copy Key into the programming station's actuating range and click the *Read* button.

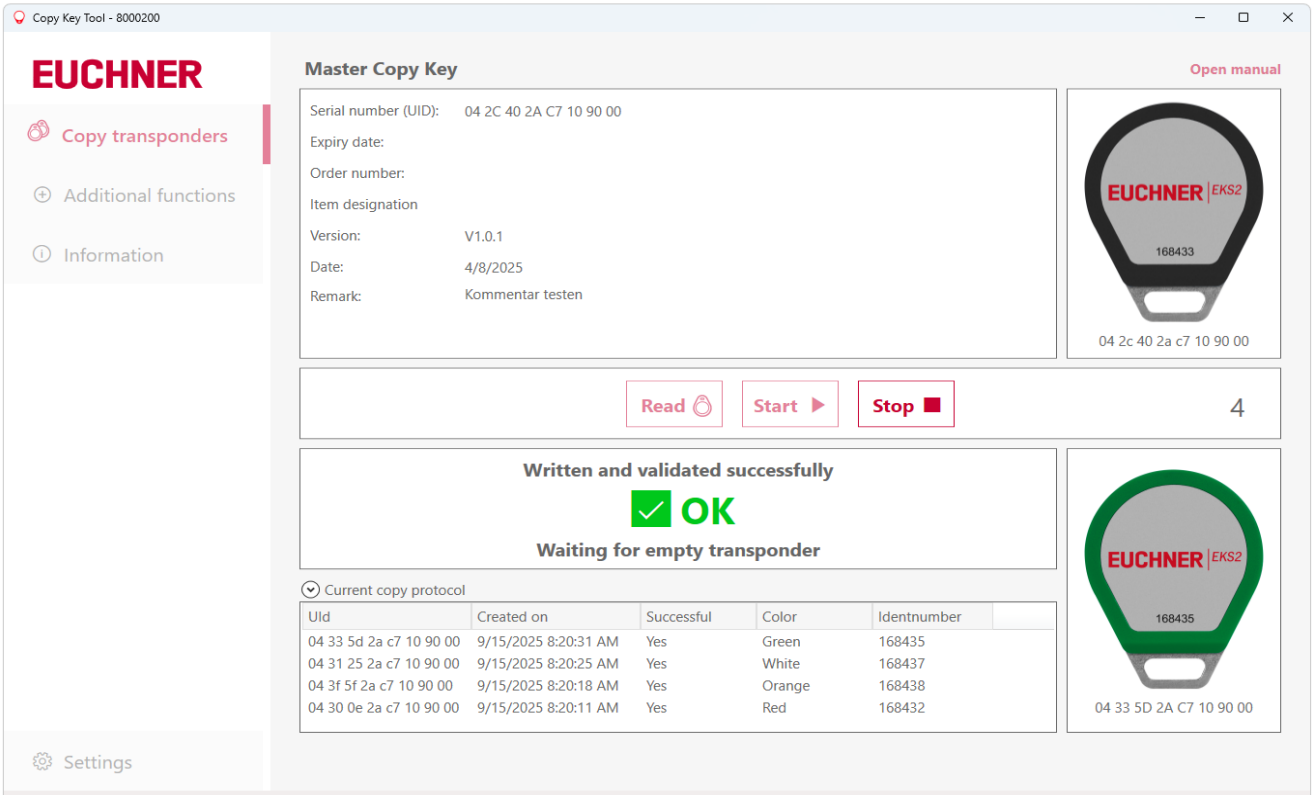
➡ Information about the Master Copy Key is displayed.

3. Click the *Start* button and remove the Master Copy Key.
4. Bring an unwritten transponder into the programming station's actuating range.

➡ The data from the Master Copy Key's user file are automatically written to the transponder.

5. Write additional transponders as described in step 4.

➡ The *Current copy protocol* drop-down box displays the newly written transponders:



6. Click the *Stop* button to end the copying process.

5. Exporting copy protocol

After a copying process is ended, the current copy protocol with the information of the Master Copy Key and the written transponders can be exported as a csv file.

For this purpose, the *Export copy protocol automatically* function must be selected in the *Advanced Settings* drop-down box in the *Settings* menu item, see *8. Changing settings on page 7*.

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6. Validating transponder data

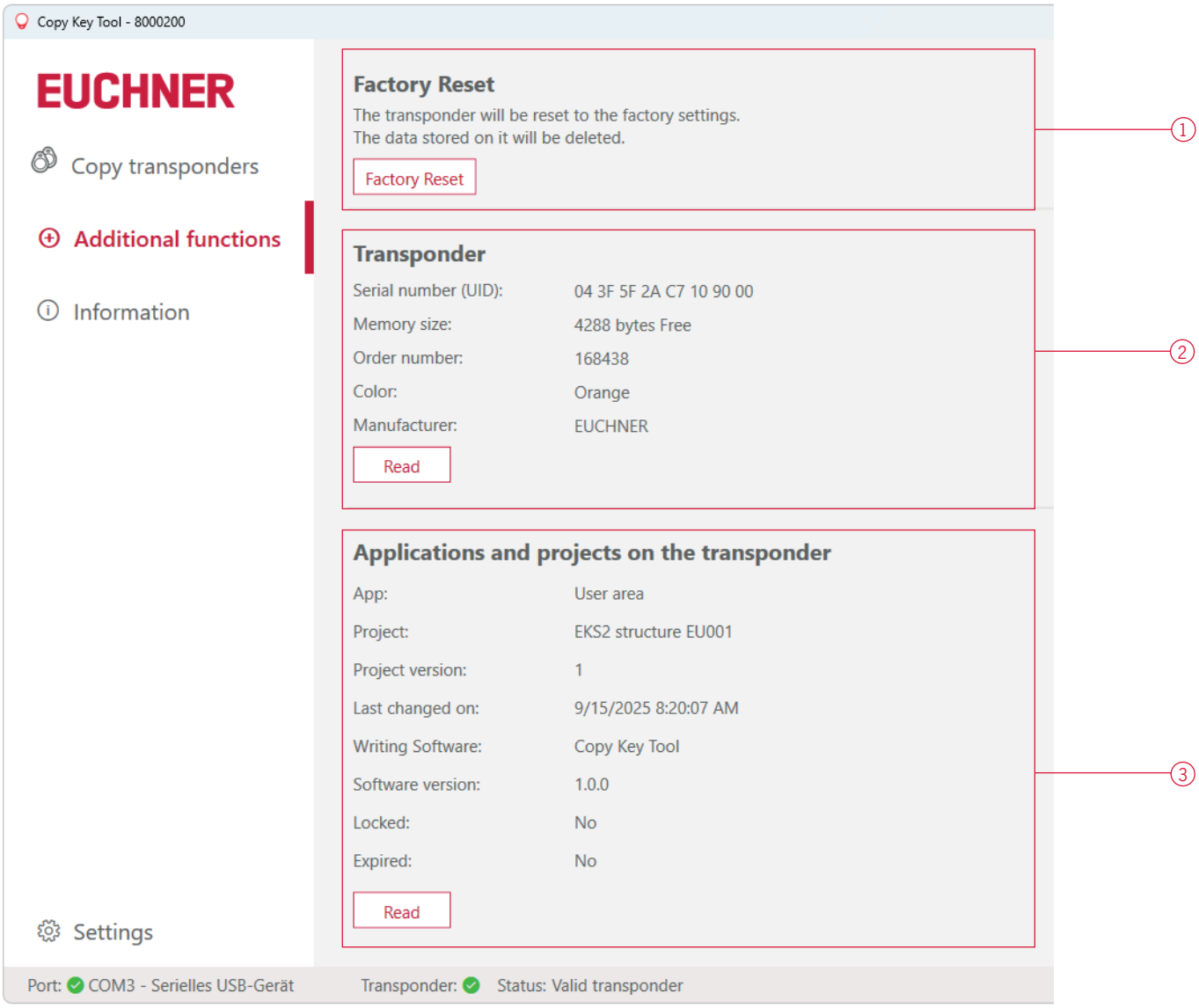
After a transponder has been written, the written data can be checked and validated by means of an additional comparison with the data to be written.

For this purpose, the *Validate transponder data automatically* function must be selected in the *Advanced settings* drop-down box in the *Settings* menu item, see *8. Changing settings on page 7*.

	Important! Validating the transponder data extends the writing process by approx. 1 s per Electronic-Key.

7. Reading and resetting transponders

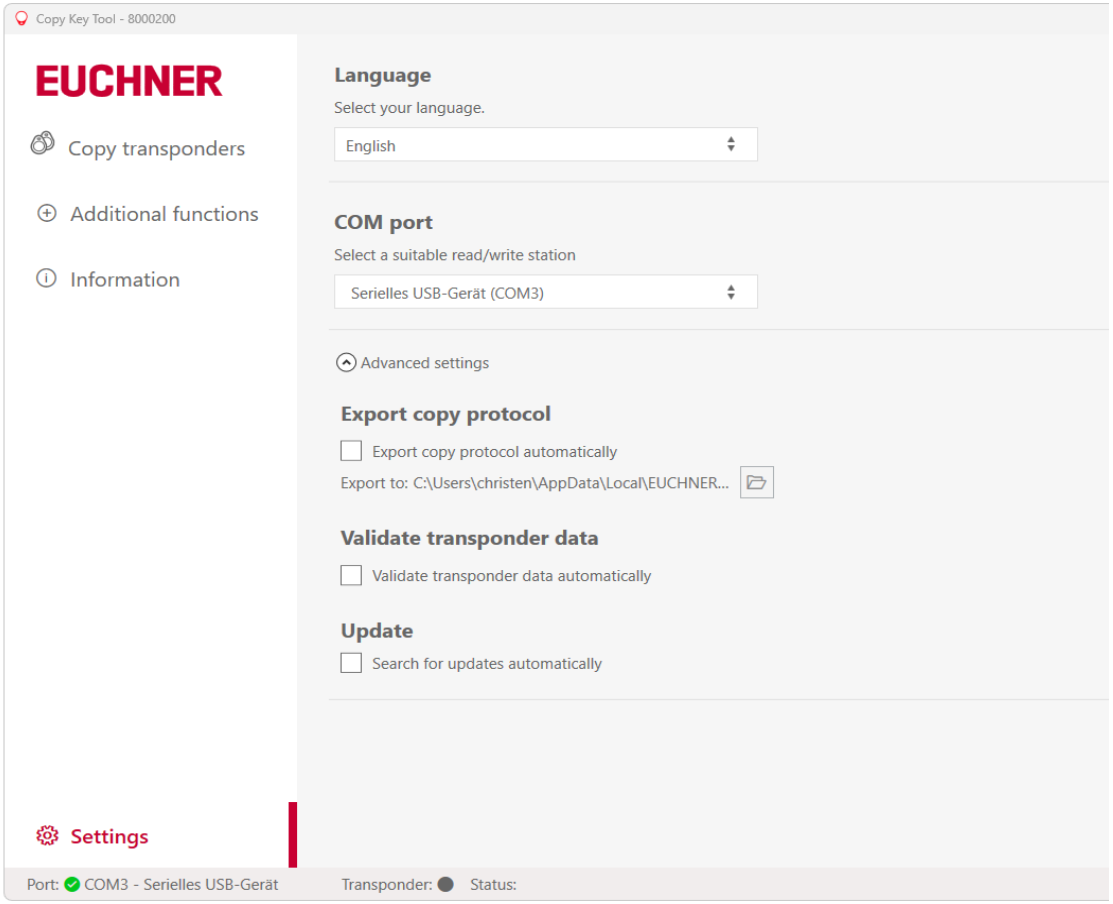
Under *Additional functions*, transponders can be reset to the factory settings; it is also possible to read their properties and the projects saved on them.



1	Factory reset: A written transponder is reset to the factory settings.
2	Read the transponder properties.
3	Read the application and the project with which the transponder was most recently written.

8. Changing settings

The language and COM port can be selected under *Settings* in the navigation area.



The following configurations can be carried out in the *Advanced settings* drop-down menu:

- Automatically exporting copy protocol (see *5. Exporting copy protocol on page 5*)
- Automatically validating transponder data (see *6. Validating transponder data on page 6)*
- Search for updates automatically (see chapter *9. Updating software and firmware on page 8*)

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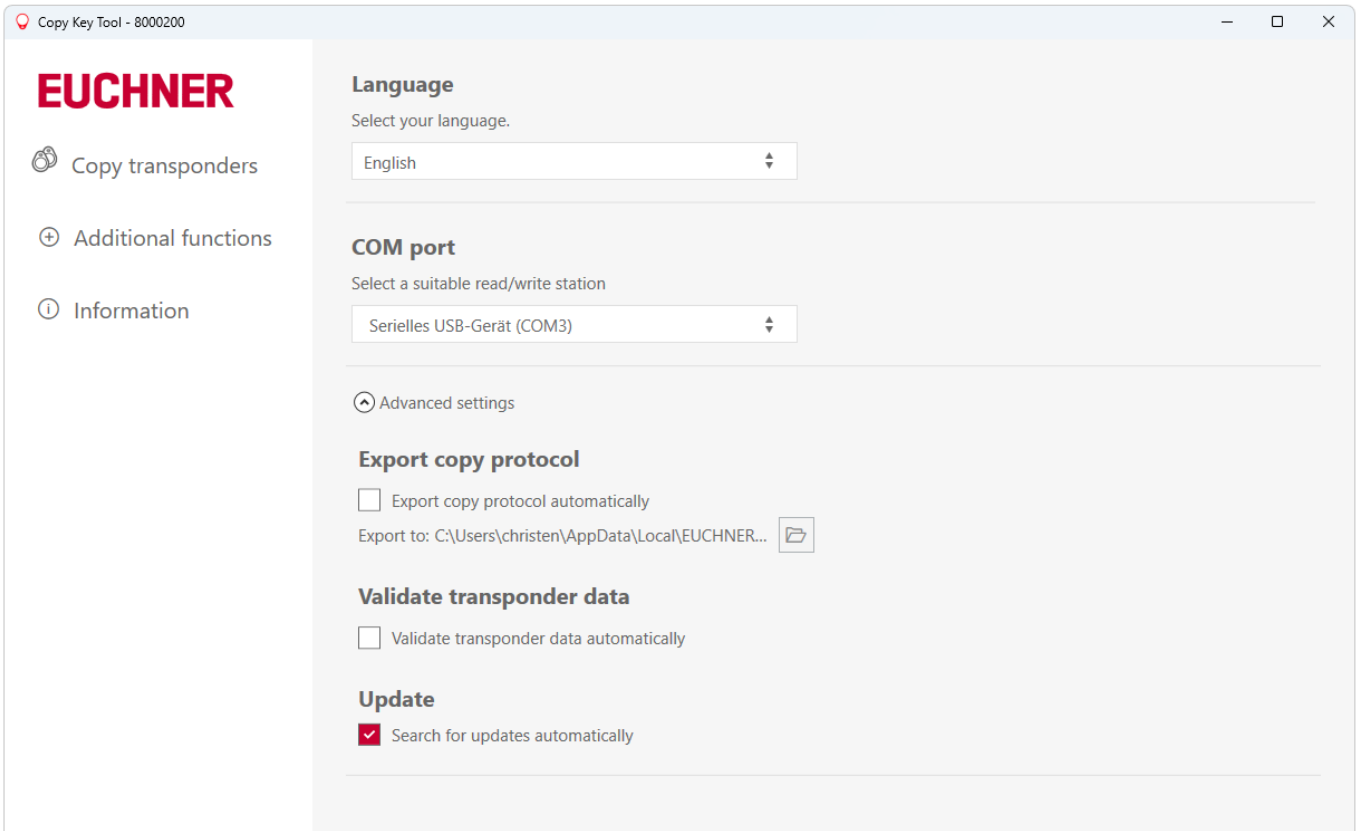
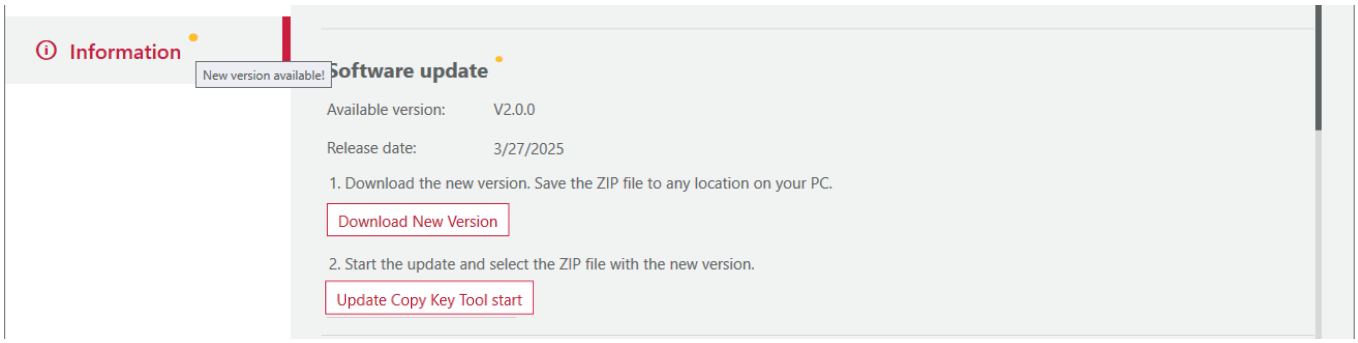
9. Updating software and firmware

9.1. Updating Copy Key Tool

1. Activate “Search for updates automatically” under *Update* in the *Settings* menu item in the navigation area:



➡ A yellow dot will appear next to the *Information* menu item when a new update becomes available:



2. Click the *Download New Version* button in the *Information* menu item.

➡ A ZIP file is downloaded.

3. Click the *Update Copy Key Tool start* button.
4. Select the ZIP file.

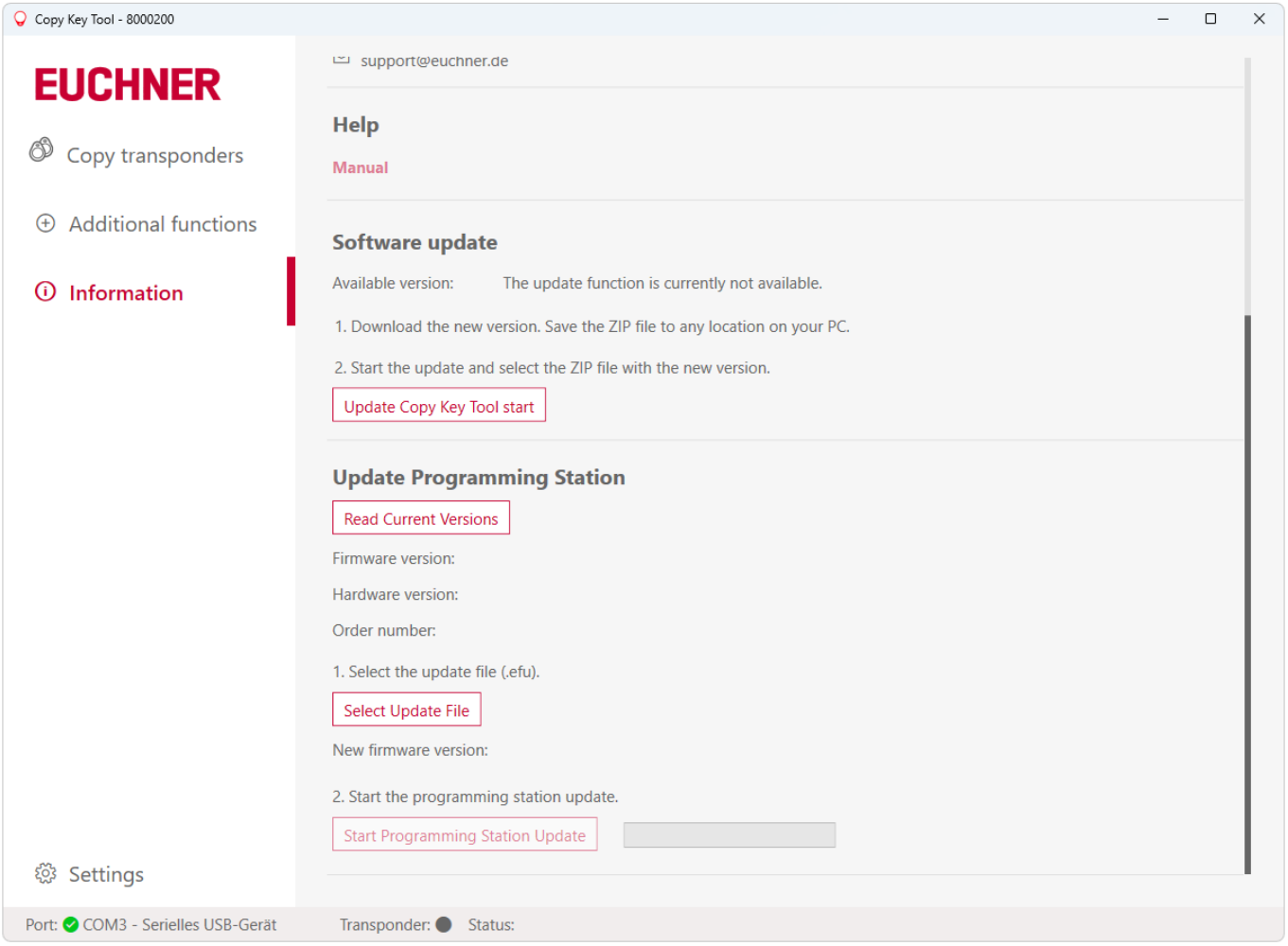
➡ The application is closed.

➡ The Windows input prompt opens automatically.

➡ Once the update is complete, the application will open again automatically.

9.2. Updating EKS2 programming station firmware

With the aid of the Copy Key Tool application software, it is also possible to update the firmware in the EKS2 programming station.



	Important! You will require the corresponding firmware file (.efu) to update the programming station's firmware. It can be requested from the EUCHNER support team.

1. Copy the firmware update file to a local directory on the PC, then unzip and save it.
2. Click *Select Update File* and select the new .efu file in the directory where it is saved.
3. Click *Start Programming Station Update*.

➡ The new firmware for the programming station is installed.

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10. FAQ – Frequently Asked Questions

10.1. How can I create a Master Copy Key?

You will require the Electronic-Key-Manager EKM2 application software to create a Master Copy Key.

10.2. Why can't I copy the Master Copy Key data to my transponder?

The transponder to be written might:

- have already been written. Only unwritten transponders can be used for copying. For further information on resetting the transponder, see *7. Reading and resetting transponders on page 6.*
- not be an EKS2 Electronic-Key.
- be a different Master Copy Key.

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