Manual to upload the software update MENNEKES ACU (device version v4)

You can download the software update from our website under "Service":
https://www.chargeupyourday.com/service/software-updates/

> **ℹ** This update is **only** released for ACU v4 (red housing).
> Please do **not** use this update for ACU v3 (white housing). Operational errors could occur.
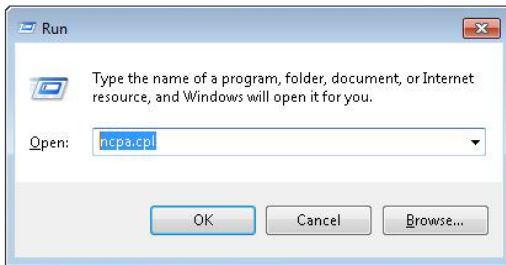

Fig. 1: ACU (device version v4)

Fig. 2: ACU (device version v3)
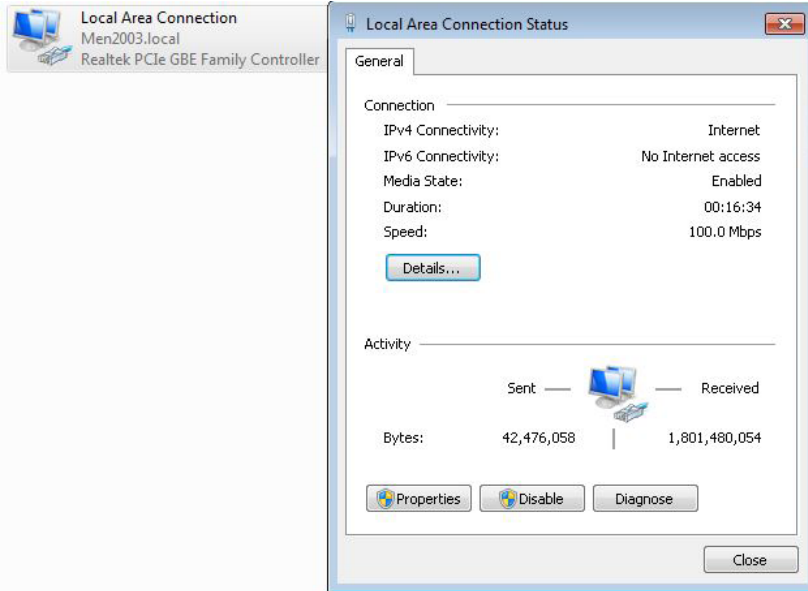
1. Preparation:

> ℹ️ To install the update, you need a PC on which you have permission to change the network settings (e.g. IP address). Operation may vary depending on the operating system used (Windows 7 is used in this example).

▶ Right-click on the Windows icon on the bottom left.
▶ In the context menu, select "Run".
▶ In the window that now appears, enter "ncpa.cpl" and confirm with "OK".
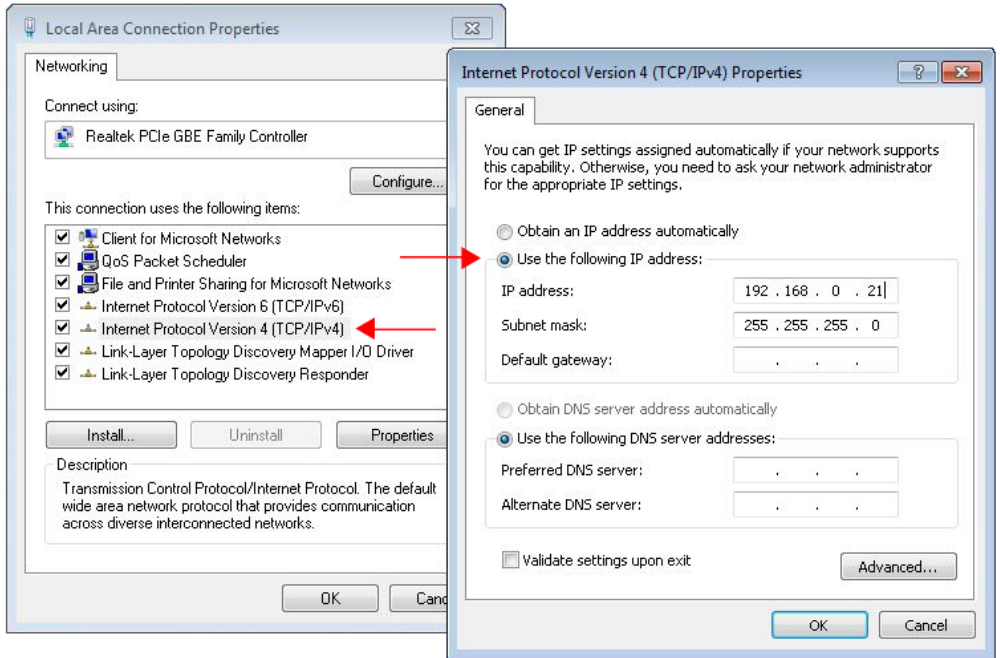
▶ Now open the settings for the Ethernet connection with a double-click.

▶ Click on "Properties".
▶ Call up "Internet Protocol Version 4" with a double-click.

▶ Select "Use the following IP address" and enter the following data:
  ■ IP address   "192.168.0.21"
  ■ Subnet mask   "255.255.255.0"

▶ Confirm the settings by clicking "OK" and exit the menu.

2. Uploading the software update

To upload the software update, connect the prepared PC to the ACU of the charging station or the eMobility Gateway.

> ℹ **The connection is made by means of a network cable.**
> For this, **either use the Ethernet port directly on the ACU** (see Fig. 4) or the **Ethernet socket (RJ45)** located in the charging column **to the right of the meters** (see Fig. 3).
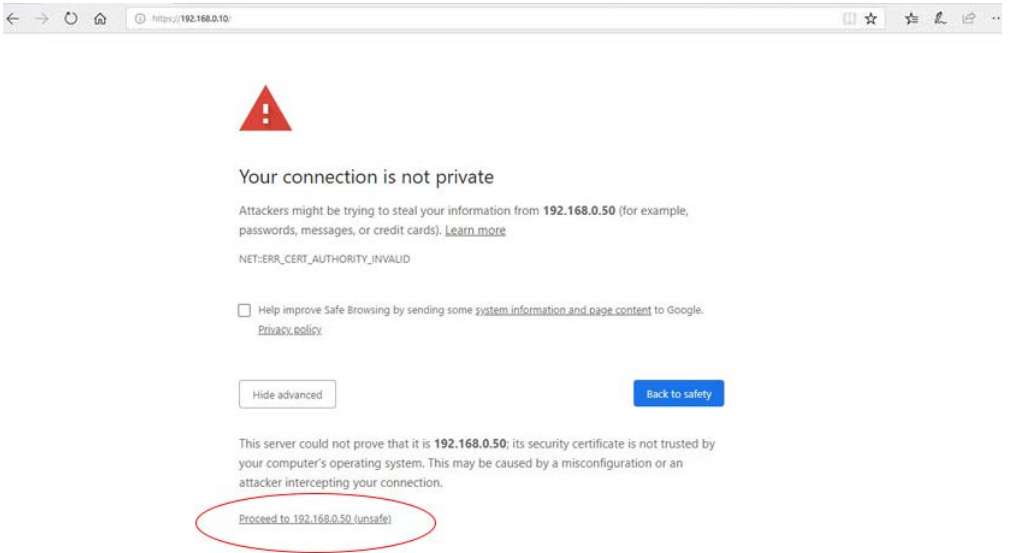

Fig. 3: Ethernet socket (RJ45)

Fig. 4: Ethernet port "ETH0" on the ACU v4

Opening the service interface:

▶ Once you are connected accordingly, open a leading-edge Internet browser (recommendation: Google Chrome or Mozilla Firefox).

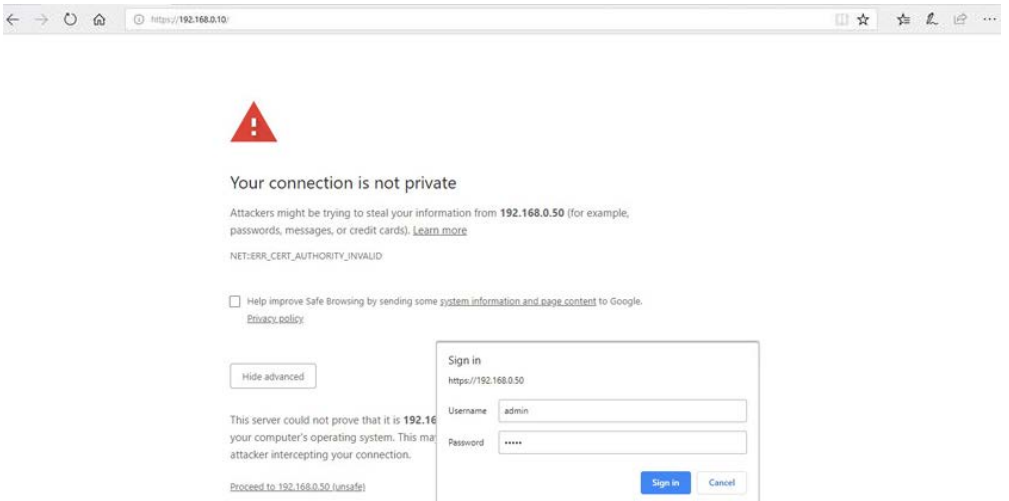▶ In the address field, enter "192.168.0.10" and confirm with ENTER.

> ℹ A page that indicates an insecure connection may now open. In Google Chrome, you can skip this to get to the service interface. To do this, click on "Advanced" followed by "Proceed to xx.xx.xx.xx".

The service interface of the ACU now opens.
► Enter the username and password.
  ■ User name: "admin"
  ■ Password: "admin"

SCU administration:

► On the start page of the service interface, navigate to "Setup" on the top right.
► Then navigate to "SCU Setup" on the top left.
► In the menu "SCU Administration", you will now find a tabular listing of all SCUs connected to the ACU.
► Now adjust the configuration of all SCUs via the "Setup" menu.

SCU - Administration

Id:	Name:	Conn:	Status:	Error:	Max. Curr.:	LB-Curr.:	LB-Forecast:	Meter-Count:	Setup:
203	203	2	Idle	A:- B:-	32A	---	---	3	Setup
249	249	1	Idle	A:- B:-	32A	---	---	14	Setup
	total:		free: 2/2		64A				

☐ Search by ID   Search SCU   Load Balancing   Refresh

Software update

SCU setup:

► In all SCU configurations, "SCU Meter Enable" must be disabled (no tick).
► Click on "Apply" to save the configuration.
► Follow these steps for each connected SCU.

Settings	Test

Id:	249
Serial:	3755313334341508000e00
Status:	Idle
Meter address:	0901454d4800008414d7
Meter type:	EMH E-MOC
Meter reading:	14.1
Hardware-Ver.:	0
Firmware-Ver.:	0-1072
Error code A:	-
Error code B:	-
Power Path:	None
CP State:	A
PP State:	Open
Contactor State:	Open

Meter Public Key:
```
a8b1 7439 8154 eda3 ea0a e3dc
5438 ff03 501c afe4 6e33 f33f
0baf 6efb ed2c dc9e 438d c8a7
7f27 c469 4ca5 8aad 01b5 1d4a
```

Name:	249
Max charge current:	32.0
Fuse(Max Current):	32.0
SCU Meter Type:	EMH E-MOC
SCU Meter Enable:	☐
OCPP ConnID:	1
SMSTel:	
CPId:	
Reader Typ:	Elatec Multi ISO
Local Auth UID:	0x00000000
SCU Flow:	Standard
Autoselect Energy Path:	Combined Path(default)
SCU Panel:	LCD Panel
Language:	German(de)
Legacy UID:	☐
Emergency Charge:	☐
SCU Unavailable:	☐
Display Charge Info:	Charged Energy and Count-Up Timer
Connector Plug-in Timeout:	1 (min)

Delete SCU   Refresh   Apply

Once the meter has been disabled for all SCUs as described above, a software update can be started.

▶ To do this, enter the following address in the address field of the browser:
https://192.168.0.10/admin/admin_local_acu_upgrade

▶ Select the previously downloaded file with "Choose File".
▶ Start the update by clicking on "starten".

ℹ The update can sometimes take up to 30 minutes for two taught SCUs as both the ACU and the taught SCU are updated to the new software version.

Reactivate meters:
Once the software update has been completed, the meters of the SCU must be reactivated.
▶ Open the service interface of the ACU as described on page 6 and navigate to "SCU Administration"> "SCU Setup".
▶ Now reactivate the meter under "SCU Meter Enable" (set tick).
▶ Click on "Apply" to save the configuration.
▶ Follow these steps for each connected SCU.