RFID cards

Capturing RFID cards, authorisations, inviting and sharing RFID – everything related to RFID cards on the Eponet portal is described here.

- RFID card management - Home
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- RFID card management - machines
- Load RFID cards - E-mobility
- Order RFID cards
- Replace RFID cards
- RFID cards - Receive receipt by e-mail
- Read RFID card / VID vehicle number via charging station

RFID card management - Home

RFID cards can be managed in various places.
On the home page in the RFID card overview, under E-mobility or under Machines.

This chapter describes the function on the start page.

Here you will find a complete overview of the RFID cards on this account. RFID cards can also be entered here.

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You can enter RFID cards using the Add button:

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> RFID numbers are entered in Eponet without spaces and without colons. If your RFID card has a number printed on it, e.g. 12:34:56:78, this must be entered without spaces and dots, i.e. 12345678

The card will then appear in the table. In the Reference ID field, you can save your own details for your information (e.g. car number). A card can also be removed again with Delete.

grafik.png

Replace RFID card

If you have lost your RFID card or entered it incorrectly, you can use the "Replace" function to enter the new RFID card number and all authorisations where the card is approved will be retained. Please use this function with caution – it can affect the evaluation and history:

grafik.png

To "Replace", click on the green edit icon and the following window will open. Here you can enter the new or correct RFID number and activate it with Update Card:

grafik.png

> If you have an Eponet RFID card, the number printed on the card is the same as the number stored on the card that is read. This is not always the case. RFID cards from other providers can also be stored, provided they comply with the current RFID standard for charging stations.

> **Supported RFID technology:** Passive HF RFID tags according to ISO/IEC 14443 or ISO/IEC 15693) (NFC) at 13.56 MHz are supported
> . The question may arise as to whether MiFare Classic is also supported, and if so, 1k or 4k. The answer is that it does not matter. The charging station only reads the UUID of the chip. It therefore does not matter whether the chip has 1k or 4k memory.
>
> It is not recommended to write to RFID cards, as depending on the charging station, the value stored in the memory may be read instead of the UUID. This can lead to incompatibility, e.g. with Hubject.

RFID card management - E-mobility

RFID cards can be managed in various places.
On the home page in the RFID card overview, under E-mobility or under Machines.

This chapter describes the function in e-mobility.

Here you can see the RFID card(s) on this account in connection with e-mobility.

> An RFID card can have different functions depending on the configuration. For example, for charging authorisation at charging stations, for starting a machine (washing machine, tumble dryer, etc.) or for access control (opening doors).

Adding RFID cards

In the main navigation (blue bar on the left), you can click on the three lines for e-mobility, then select RFID card:

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Here you will see the four tabs: Overview, Shared, Invited and Add RFID card.

Under Add RFID card, you can register your card: Enter the number on your Eponet RFID card and confirm with "Add card":

grafik.png

> RFID numbers are entered in Eponet without spaces or colons. If your RFID card has a number printed on it, e.g. 12:34:56:78, this must be entered without spaces or dots, i.e.

> 12345678

The card will then appear in the table (under the Overview tab). In the Reference ID field, you can save your own details for your information (e.g. car number). A card can also be removed again by clicking Delete.

grafik.png

Shared tab

Under the Shared tab, you can see where you have shared your RFID card(s) or where and at what price you can charge your vehicle with an RFID card. Click on your RFID card here and you will see in this example that this RFID card can be used to charge at the "Keba charging station on PP7" (and at what price):

grafik.png

> No charging station and prices visible under "Shared" yet? You must first be invited by the operator. To do this, contact the operator and provide them with the email address of your account so that they can invite you.

"Invited" tab

Under the "Invited" tab, as the operator of a charging infrastructure, you can see who is invited to your charging station and at what price. Click on your RFID card here and you will see in this example that this RFID card is authorised to charge at the "Keba charging station on PP7" (the price can be assigned or changed under Profile):

grafik.png

If an exclamation mark icon appears here under "Invited" for an RFID card, this means that the user has been invited without a price profile and can therefore charge free of charge.

Bildschirmfoto 2025-02-27 um 10.35.18.jpg

The green edit icon can be used to check or assign prices. A window will open. In this example, you can see that no price has been assigned to the second charging station:

grafik.png

The "Invited" tab also offers the option of batch management for invited RFID cards. To do this, select one or more RFID cards and click on the green "Assign" button:

grafik.png

In the following window, you can now assign the authorisation and price profile to an RFID card in one go:

grafik.png

> If you have an Eponet RFID card, the number printed on the card is also the number stored on the card that is read. This is not always the case. RFID cards from other providers can also be stored, provided they comply with the current RFID standard for charging stations.

> **Supported RFID technology:** Passive HF RFID tags according to ISO/IEC 14443 or ISO/IEC 15693 (NFC) at 13.56 MHz are supported
> . The question may arise as to whether MiFare Classic is also supported, and if so, 1k or 4k. The answer is that it does not matter. The charging station only reads the UUID of the chip. It therefore does not matter whether the chip has 1k or 4k memory.
>
> It is not recommended to write to RFID cards, as depending on the charging station, the value stored in the memory may be read instead of the UUID. This can lead to incompatibility, e.g. with Hubject.

RFID card management - machines

RFID cards can be managed in various locations.
On the home page in the RFID card overview, under E-mobility or under Machines.

This chapter describes the function in machine control.

Here you can see the RFID card(s) on this account in connection with machines.

> An RFID card can have different functions depending on the configuration. For example, for charging authorisation at charging stations, for starting a machine (washing machine, tumble dryer, etc.) or for access control (opening doors).

Inviting RFID cards

If you want to load an RFID card that has been added to a tenant's account, you can do so using the "Load an RFID card" button. Click on the button (marked in red below) and a new window will open.

Bildschirmfoto 2025-09-16 um 11.54.40.png

Now enter the tenant's email address and tick the devices that the tenant is allowed to use, for example, for washing. You must also select the appropriate profile so that billing can take place. Then
click on "Invite".

Bildschirmfoto 2025-09-16 um 11.54.49.png

After inviting the tenant, they will receive a notification and can share their RFID card. The machine can then be used.

Add RFID cards

In the main navigation (blue bar on the left), you can click on Building, then select RFID Card:

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Here you will see the four tabs: Overview, Shared, Invited and Add RFID card.

Under Add RFID card, you can register your card: Enter the number on your Eponet RFID card and confirm with "Add card":

grafik.png

> RFID numbers are entered in Eponet without spaces or colons. If your RFID card has a number printed on it, e.g. 12:34:56:78, this must be entered without spaces or dots, i.e. 12345678

The card will then appear in the table (under the Overview tab). In the Reference ID field, you can save your own details for your information (e.g. name of a family member). A card can also be removed again by clicking Delete.

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Shared tab

Under the Shared tab, you can see where you have shared your RFID card(s) or where and at what price you can start a machine with an RFID card. Click on your RFID card here and you will see in this example that this RFID card can be used to wash on the "Miele washing machine no. 11" (and at what price):

grafik.png

> No machines or prices visible under "Shared" yet? You must first be invited by the operator. To do this, contact the operator and give them the email address of your account so that they can invite you.

"Invited" tab

Under the Invited tab, as an infrastructure operator, you can see who is invited to use which machine at what price. Click on your RFID card here and you will see in this example that this RFID card is authorised to wash on "Miele washing machine no. 11" (the price can be assigned or changed under Profile):

grafik.png

If an exclamation mark icon appears here under "Invited" for an RFID card, this means that the user has been invited without a price profile and can therefore use the machine free of charge.

Bildschirmfoto 2025-02-28 um 09.46.23.jpg

The green edit icon can be used to check or assign prices. A window opens. In this example, you can see that no price has been assigned to the second machine:

grafik.png

The "Invited" tab also offers the option of batch management for invited RFID cards. To do this, select one or more RFID cards and click on the green "Assign" button:

Bildschirmfoto 2025-02-28 um 09.53.06.jpg

In the following window, you can now assign the authorisation and price profile to an RFID card in one step:

grafik.png

> If you have an Eponet RFID card, the number printed on the card is also the number stored on the card that is read. This is not always the case. RFID cards from other providers can also be stored, provided they comply with the current RFID standard for charging stations.

> **Supported RFID technology:** Passive HF RFID tags according to ISO/IEC 14443 or ISO/IEC 15693 (NFC) at 13.56 MHz are supported
> . The question may arise as to whether MiFare Classic is also supported, and if so, 1k or 4k. The answer is that it does not matter. The charging station only reads the UUID of the chip. It therefore does not matter whether the chip has 1k or 4k memory.

It is not recommended to write to RFID cards, as depending on the charging station, the value stored in the memory may be read instead of the UUID. This can lead to incompatibility, e.g. with Hubject.

Load RFID cards - E-mobility

As an administrator or operator of charging stations, you can invite STWE, tenants or simply users to charging stations. This page describes the procedure and options.

> **Requirements**
> **-** You have functional charging stations on your Eponet account
> - You have already created a charging profile (
> prices) for users - You know the email address or RFID number(s) of the user you want to invite

In the main navigation (blue bar on the left), you can click on the three lines for e-mobility, then select RFID card:

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Now click on the green button "Invite RFID cards". A window
will open and you now have two options for inviting users.

Option 1 – Invite via email address:

Enter the email address of the user you want to invite in the top field and click on the charging stations they are allowed to use. Select the charging profile for each charging station you click on:

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> **Please note:**
> If no profile is selected, i.e. if the invitation is sent with "none", the renter/STWE can charge for free!

> **Information about inviting via email address:**
> If the invitation fails with the message: The
>
> grafik.png
> reason for this is probably that the user has not yet created an Eponet account.

> This means that they cannot yet be invited.

After pressing the blue "Invite" button, the invitee receives an email informing them that they have a notification in their account. In their account, under "Notifications", they can see their invitation and share their desired RFID cards:

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Option 2 – Invite via RFID card number:

Instead of using the user's email address, you can also invite a user directly if you know their RFID number.

To do this, enter the user's RFID number in the "RFID Card" field and click on the charging stations where they are allowed to use. Select the charging profile for each charging station you click on:

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> **Please note:**
> If no profile is selected, i.e. if the invitation is sent with "none", the renter/STWE can charge for free!

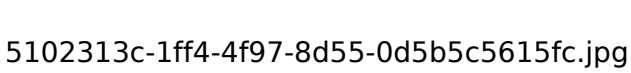
After pressing the blue "Invite" button, the invitation is complete. The user can use the RFID card(s) immediately (provided their balance is high enough).

The invited user will still receive an email informing them that they have a notification in their account stating that they have been invited.

Order RFID cards

To charge at an Eponet charging station, you need an Eponet RFID card or an Eponet RFID badge.

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Once you have created your account, you can add your RFID card(s) yourself under the RFID Card tab. Each Eponet RFID card or Eponet RFID badge has a unique number printed on it. You can enter this number in the CARD ID field.

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> RFID cards from other providers may also work.
>
> **Please note:**
> If Eponet provides support for third-party RFID cards, we reserve the right to charge for this support in your account. For this reason, we recommend the tested Eponet RFID cards.

You can order RFID cards and badges directly from Eponet

You can order Eponet RFID cards or RFID badges by emailing info@eponet.ch with the following information:

Number of Eponet RFID cards or Eponet RFID batches required
Delivery address (and Eponet account number, if available)

Prices for Eponet RFID cards

Product	Quantity	Price per item in GBP (flat rate)	Shipping costs CHF (flat rate)
RFID cards	1 to 5 items	3.0	5
RFID cards	More than 5 pieces	3.00	12

Prices Eponet RFID badge

Product	Quantity	Price per item GBP (flat rate)	Shipping costs CHF (flat rate)
RFID badge for key ring	from 1 item	3	12

Replace RFID cards

Replace RFID card

If you have lost your RFID card or entered it incorrectly, you can use the "Replace" function to enter the new RFID card number and retain all authorisations for which the card is approved. Please use this function with caution – it may affect evaluations and history:

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To "Replace", click on the green edit icon and the following window will open. Here you can enter the new or correct RFID number and activate it with Update Card:

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> **Advantages of the replace function**
> Replacing the card means that all RFID invitations remain valid. This means that if you are invited to charge at certain locations, these invitations remain valid.

RFID cards - Receive receipt by e-mail

Do you have several RFID cards – for example, one for private journeys and one for business journeys – and would you like to receive a receipt by email only for the business cards? This can be set up according to your preferences.

The email address for a receipt is stored in the address book in your account.
Here is an example with Beat Muster.

Beat Muster has two RFID cards. In the Reference ID field, he has already labelled them "Private journeys" and "Business journeys":

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Now Beat Muster wants the receipt for the "Business trips" RFID card to always be sent by email to the address: firma@beatmuster.ch.
To do this, Beat Muster opens a new contact called Muster Beat Business with "Add contact" and enters this email address there:

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For the RFID card (here under E-mobility), this new contact with the desired email address can now be stored in the "Assigned to" field:

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Incidentally, if Beat Muster does not want to receive receipts by email for his private journeys, he can create a contact without an email address and assign this contact to the "Private journeys" RFID card.

Read RFID card / VID vehicle number via charging station

An owner/administrator of a charging infrastructure can also read an RFID card or the VID number (Vehicle Identification Number) of a vehicle via a charging station.

> The VID number (Vehicle Identification Number) is a unique identifier for each electric vehicle. It is used to identify and distinguish the vehicle. Reading the VID number is mainly used for Autocharge and ISO15118.

> The PlugandCharge/Autocharge or ISO15118 function described only works with DC charging stations.

To do this, go to the charging station you want to use for reading and press the "Read RFID card" button to start a reading process, which takes 30 seconds.

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After pressing the button, a pop-up window opens with a timer counting down 30 seconds. During these 30 seconds, an RFID card can be held up to the charging station and it will then appear in this pop-up window. The system now offers the option of copying the card number to the clipboard or, if it is a new, unused number, saving it immediately as a new RFID card.

Bildschirmfoto 2025-05-08 um 09.14.47.png

Instead of an RFID card, a vehicle can also be plugged in during the 30 seconds and the system will then read the VID number (Vehicle Identification Number) of a vehicle. This function is intended for charging stations without RFID readers, where charging is to be started and the charging data evaluated via the VID number (Autocharge or Plug'n Charge ISO 15118 function).

> Whether this function is available depends on the charging station or the vehicle. Not all charging stations support this function, or it must be activated by the

manufacturer/installation partner. The same applies to vehicles. Not all vehicles support this function or comply with the standards. Eponet is therefore unable to offer any support in this regard.

At some DC charging stations, the function is only available when a vehicle is plugged in.