

Manual: QA Vehicle Integration (MyŠkoda API)

Reading the values of a Škoda electric vehicle connected to the MyŠkoda cloud from the MyŠkoda Public API and transferring them to the SHE system for charging planning.

Introduction

QA Vehicle Integration (MyŠkoda API) is the input application for smart charging control of a Škoda electric vehicle connected to the MyŠkoda cloud. The application reads the online vehicle data provided by the MyŠkoda Public API and passes them to the SHE system for charging planning. No hardware is installed in the vehicle — all you need is an API key created in the MyŠkoda app and the vehicle VIN.

The system then automatically works with the current battery state of charge (SOC) and plans charging according to your requirements — typically from photovoltaic surplus or based on spot prices.

The MyŠkoda Public API lets third-party applications read the data of a connected Škoda vehicle, among other things charging data (status, profiles, saved charging locations) and the parking position of the vehicle. The data available depends on what the specific vehicle supports.

Transferred values:

- current battery state of charge SOC,
- charging limit (SOC Max),
- vehicle battery capacity,
- plug status (connected / disconnected),
- charging status, vehicle state and charging type,
- vehicle position (at home),
- time of the last update of the vehicle values.

For clear visualisation and for working with the measurement history and charts, we recommend connecting to Mervis SCADA.

IMPORTANT WARNING: The application is in the Beta version and reads data from a third-party service — the MyŠkoda Public API.

The transfer of values, their scope and update frequency depend on the MyŠkoda Public API and on which data are available in this interface for the specific vehicle. The provider sets the request limit and the API key validity and may change them.

The functionality of the application and the support options of Smart Home and Energy depend on the availability, capabilities and terms of this interface. If it is changed, restricted or discontinued, the application may stop working completely or partially.

Smart Home and Energy does not guarantee the availability, completeness or correctness of data provided by a third party. The customer sets up and manages the MyŠkoda account and the API key themselves in the MyŠkoda mobile app.

Upstream and downstream applications

Upstream applications

- **MyŠkoda Public API** — source of the vehicle values; the application is standalone and does not require any upstream QA application. It requires a Škoda electric vehicle connected to the MyŠkoda cloud and an API key created in the MyŠkoda app.

Downstream applications

- **QA Wallbox SPOT Planner** — takes over the loaded vehicle values and plans and controls charging based on them.

Installation and initial setup of the QA

Installation

Purchase the application in the Smart Home and Energy e-shop (<https://eshop.smarthomeenergy.cz>). After the purchase you receive an e-mail with a link to the activation form, in which you choose one of the two installation methods:

- **Installation via the SHE Installation Application (recommended)** – the activation form provides a link to download the Installation Application.
 - Install it into the unit; it then automatically downloads and installs the purchased licences.
 - It provides automatic updates of all applications and easy licence management.
 - Requires the “superuser” credentials for the unit. See the separate “Installation Application” manual for details.
- **Standalone installation file** – the activation form provides links to download an encrypted *.fqax file bound to the entered unit S/N.
 - Install the file manually into the unit according to the unit manufacturer's instructions (logged in as “superuser”).
 - This option does not allow automatic updates.

Before purchase, you can try out the full functionality of the application for 2 days with the TRIAL version (a separate *.fqax file for download in the product detail in the e-shop).

After a successful installation, the cards and tiles belonging to the application appear on the unit desktop in a section named after the vehicle (e.g. **Enyaq**):

- **Skoda EV, Values overview, Options, Installation,**
- tiles with the loaded values **Battery SOC, Battery SOC Max, At home, Plug and Charging**. The time of the last value change is shown on the tiles.

Operating prerequisites

- The controller in the installation is a **Fibaro HC3** or **HC3 Lite**.
- You have a **Škoda electric vehicle connected to the MyŠkoda cloud** and the **MyŠkoda** app on your phone (download at <https://go.skoda.eu/myskoda>).
- You have created an **API key** in the MyŠkoda app for reading the vehicle data (key management: <https://go.skoda.eu/api-keys>).
- You know the **VIN** of the vehicle.
- For the actual charging planning and control, the downstream application **QA Wallbox SPOT Planner** is installed.

Opening the application control card

To open the application card in a web browser, move the cursor over the tile (e.g. **Values overview, Options, Installation**) and click the eye icon in its top-right corner. The card detail with the current state and settings opens. The main card **Skoda EV** displays only the application run state (**Run status: Running**).

Warning: Not all cards and tiles are displayed to all users. Each user selects which cards and tiles are displayed on the Display Settings card (sheViewControl application) – levels SHORT, ADVANCED and ADMIN. If you cannot see a described card, check the settings on this card.

User settings

Creating an API key in the MyŠkoda app

The MyŠkoda Public API documentation states the following about obtaining a key (source: <https://public.api.connect.skoda-auto.cz/docs>):

Obtaining an API key: Every request requires an API key. Keys are created and managed in the MyŠkoda app. Do you have the MyŠkoda app installed on your phone? Open the API key management: <https://go.skoda.eu/api-keys>. Reading on a computer? Scan the QR code with your phone and the key management opens directly in the app. Don't have MyŠkoda? Download it at <https://go.skoda.eu/myskoda>.



Procedure:

1. On a phone with the MyŠkoda app installed, open the API key management via the link <https://go.skoda.eu/api-keys> or by scanning the QR code above.
2. Create a new API key and select the vehicle for which it is to apply. The key is bound only to the vehicles selected when it was created.
3. Copy the key — you will enter it into the **AccessToken** variable of the application in the unit (see Initial setup procedure).

Warning: Each API key has a limited validity. The expiry date and time are shown on the **Values overview** card in the **X-API-KEY** expiration field. After the validity expires, the application stops loading data — create a new key in the MyŠkoda app and enter it into the **AccessToken** variable.

Initial setup procedure

1. In the MyŠkoda app, create an API key and enable reading of the vehicle data.
2. In the application variables (**Variables** tab in the device settings):
 - Enter the vehicle identification number into the **VIN** variable.
 - Enter the created API key into the **AccessToken** variable.
 - Optionally adjust **CarName** (vehicle name in the header of the cards and tiles).
3. Open the **Installation** card.
 - In the **Control configuration** section, in the **Wallbox Group** field, set the wallbox group to which the vehicle belongs in the downstream application QA Wallbox SPOT Planner.
 - Save the changes with the **SAVE** button.
4. Open the **Values overview** card and use the **Update** button to verify that the vehicle values are being loaded and that the value in the **Number of queries remaining** field decreases in the **Communication Overview** section.
5. Optionally set up notifications on the **Options** card.

"Installation" card

The card is used for the control configuration.

- **Wallbox Group** — wallbox group to which the vehicle is assigned in the downstream application QA Wallbox SPOT Planner; change the value with the -- / - / + / ++ buttons.
- **Run status** — application run state (e.g. Running).

Save the changes with the **SAVE** button. The application version is shown at the bottom of the card (e.g. sheSkodaCarIntegration 1.02.01).

“Options” card

The card is used to set up notifications.

Notification settings:

- **START / STOP** — switching the sending of notifications on and off,
- **E-mail / Push** — choice of the notification delivery method,
- **Notification period** — notification sending interval (e.g. 1h); change the value with the -- / - / + / ++ buttons,
- **EMAIL USERS** — selection of the unit users to whom e-mail notifications are sent,
- **PUSH DEVICE** — selection of the mobile devices to which push notifications are sent.

Refresh the values displayed on the card with the **Update** button.

“Values overview” card

The card displays a summary of the currently loaded vehicle values and the status of communication with the MyŠkoda Public API.

Values overview:

- **Battery SOC** — current battery charge in %,
- **Battery SOC Max** — set charging limit in %,
- **Car Battery Capacity** — capacity in kWh,
- **Position at home** — whether the vehicle is at home,
- **Wallbox status** — vehicle state reported by the API (e.g. Charging interrupted),
- **Plug status** — Connected / Disconnected,
- **Charging Status** — whether charging is in progress (Yes / No),
- **Charging type** — type of the ongoing charging,
- **EV Update** — time of the last update of the vehicle values on the provider side,
- **Update** — time of the last card update.

With the **Update** button you trigger an immediate load of the values from the MyŠkoda Public API outside the regular period.

Communication Overview:

- **Query limit** — maximum number of API requests per hour for one VIN, set by the provider (20 at the time of publication of this manual; the value may change),
- **Number of queries remaining** — how many requests can still be sent in the current hour,
- **Reset** — time when the provider renews the request quota,
- **Next question** — time of the next scheduled request,
- **Expiration** — expiry information passed by the API,
- **X-API-KEY expiration** — date and time of expiry of the API key validity (the provider returns it with every response).

Warning: The number of API requests is limited by the provider and every request sent counts towards the limit, including one that ends with an error. After the limit is exhausted, the provider rejects further requests until the time shown in the Reset field. Therefore use the Update button with care.

Variables

The application uses these variables (**Variables** tab in the device settings):

- **AccessToken** — API key created in the MyŠkoda app (secret variable),
- **VIN** — vehicle identification number (VIN),
- **CarID** — vehicle ID,
- **CarName** — vehicle name (displayed in the header of the cards and in the name of the section on the desktop, e.g. Enyaq),
- **_savedValues** — internal backup of the application settings (do not edit).

Notes

- The application is in the Beta version. The transfer of values, their scope and update, as well as the functionality and support of the application, depend on the MyŠkoda Public API interface. Smart Home and Energy does not guarantee the availability, completeness or correctness of data provided by a third party.
- The range of transferred values depends on what your vehicle supports.
- The API key is bound to the selected vehicles and has a limited validity — watch the date in the **X-API-KEY expiration** field and create a new key in the MyŠkoda app after the key validity expires.
- The number of requests to the MyŠkoda Public API is limited by the provider (20 requests per hour per VIN at the time of publication of this manual).
- For the actual charging planning and control, the downstream application **QA Wallbox SPOT Planner** is required.
- For clear visualisation and for working with the measurement history and charts, we recommend connecting to **Mervis SCADA**.