

Operating the charging station

A complete guide to the web admin interface of the **e:car** charging station — from login through everyday charging control to network, protocols and maintenance. The on-screen interface is in Czech; original Czech labels are shown in quotes with an English meaning.

A Overview — power control and charging status

B Charging Hub — station, points, history, timers

C System — network, users, protocols, maintenance

IONT tech s.r.o.

www.iont.tech

e:car Smart · ECWST2 · firmware 3.1.159 · end customer (admin) · EN

IONT tech s.r.o.

Contents

—Introduction & login3

—Getting around the interface4

A. Top menu: Overview (Přehled)

1Power limiter5

2Charging point and its actions5

B. Top menu: Charging Hub (Dobíjecí Hub)

1This station7

2Discovery9

3Charging points9

4Charging history10

5LED lighting11

6Energy meters11

7Timers12

C. Top menu: System (Systém)

1System (time, restart, factory reset)13

2Software13

3Network14

4Pairing15

5Energy management16

6Topology16

7Protocols17

8User management17

9Troubleshooting18

—Safety & recommendations19

INTRODUCTION & LOGIN

The admin interface is a web page served directly by the charging station. It is used for detailed configuration and is intended for the device owner. Open it in a browser on a device connected to the same network as the station — no installation is required.

LOGGING IN

- 1 In the browser address bar, enter the station's local IP address, e.g. `http://192.168.0.60`, and press Enter.
- 2 In “**Uživatelské jméno**” (Username) enter “**admin**” and in “**Heslo**” (Password) enter the account password (default “**admin**”).
- 3 Click “**Přihlásit se**” (Log in). The “**Přehled**” (Overview) screen opens.

Change the default password. After the first login the interface warns that you are using the default credentials — using the default password is a security risk. Change it under **C / 8 User management**.

ORIENTATION

GETTING AROUND THE INTERFACE

A fixed bar sits at the top, with three top-level menus below it that you switch between throughout. Selected sections also have a vertical sub-menu and an “**Přehled / Nastavení**” (Overview / Settings) toggle.

TOP BAR

- » **Status dot**: shows the system status; clicking it opens *Troubleshooting*.
- » **Flag**: interface language switch.
- » **Logout icon**: signs out the current user.
- » **Moon icon** (bottom): toggles light / dark mode.

THREE TOP MENUS

- » **Overview** (Přehled): live dashboard — power control and charging-point status.
- » **Charging Hub** (Dobíjecí Hub): everything about charging (7 vertical items).
- » **System** (Systém): device, network and maintenance settings (9 items).

Device information. The documented station: name **Garáž**, serial number **EC0001**, model **eCarWallSmart**, hardware configuration **ECWST2**, software **3.1.159**.

A TOP MENU: OVERVIEW

The first screen after login. It shows the current power allocation and the status of each charging point; values update live.

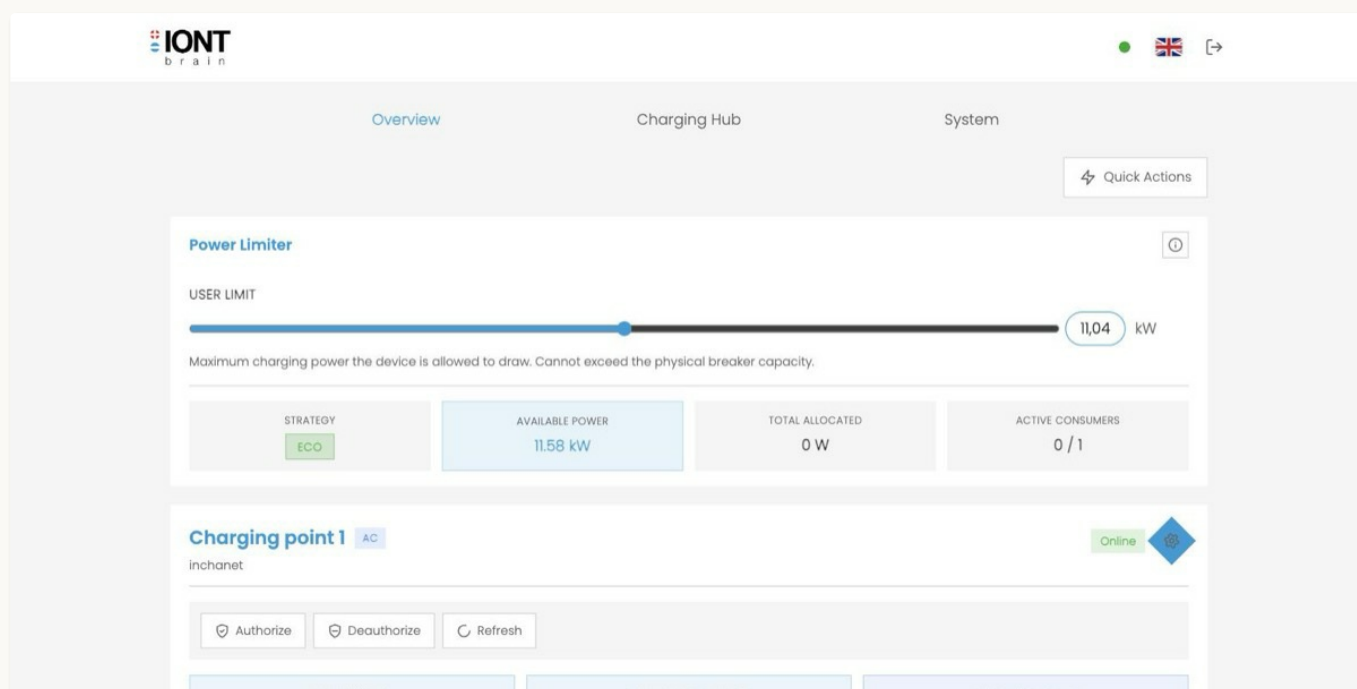


Fig. 2: Overview — Power limiter and the charging-point card

1 Power limiter (Omezovač výkonu)

Controls how much power the whole station may draw. Set the “**Uživatelský limit**” (User limit) with the slider or by typing a value (in kW) into the field on the right.

- » **Strategy** (Strategie): the current power-sharing mode (**Boost** / Normal / Eco — changed in the station settings).
- » **Available power** (Dostupný výkon): how much power is currently available for charging.
- » **Total allocated** (Celkem přiděleno): the sum currently allocated to the charging points.

» **Active points** (Aktivní body): number of points in operation out of the total.

IONT tech s.r.o.

A · OVERVIEW

2 Charging point and its actions

For every charging point you see its energy, power, vehicle state and charging state live. Click the **gear icon** on the right of the point's card to expand its quick actions.

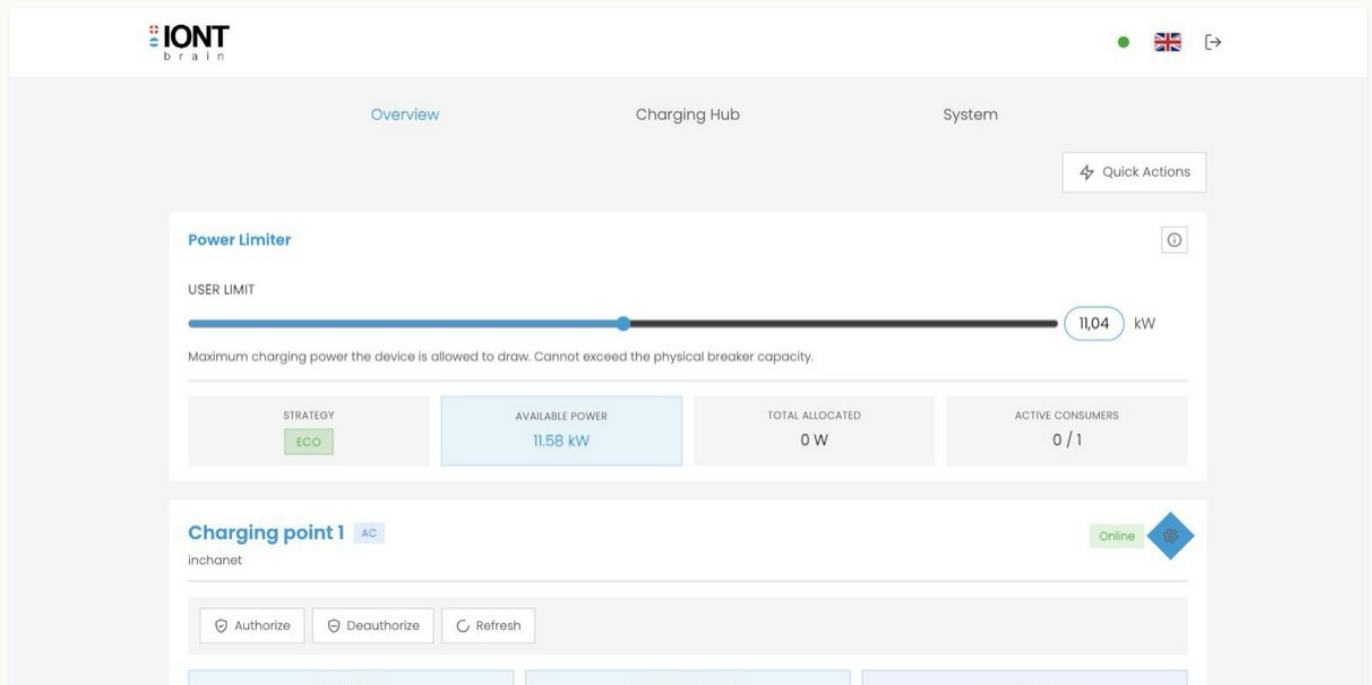


Fig. 3: Expanded charging-point actions (gear icon)

- » “**Autorizovat**” (Authorize): allows the connected vehicle to start charging.
- » “**Zrušit autorizaci**” (Cancel authorization): immediately stops charging on this point.
- » “**Obnovit**” (Refresh/Reset): refreshes / resets the charging point.

The green **Online** pill shows the point's availability; the **AC** tag marks the type (alternating-current charging). The card also lists total energy, last-session energy, charging power, socket type, charging mode and vehicle state.

3 Quick actions (Rychlé akce)

The “Rychlé akce” (Quick actions) button at the top right opens a panel with bulk actions for the whole station.

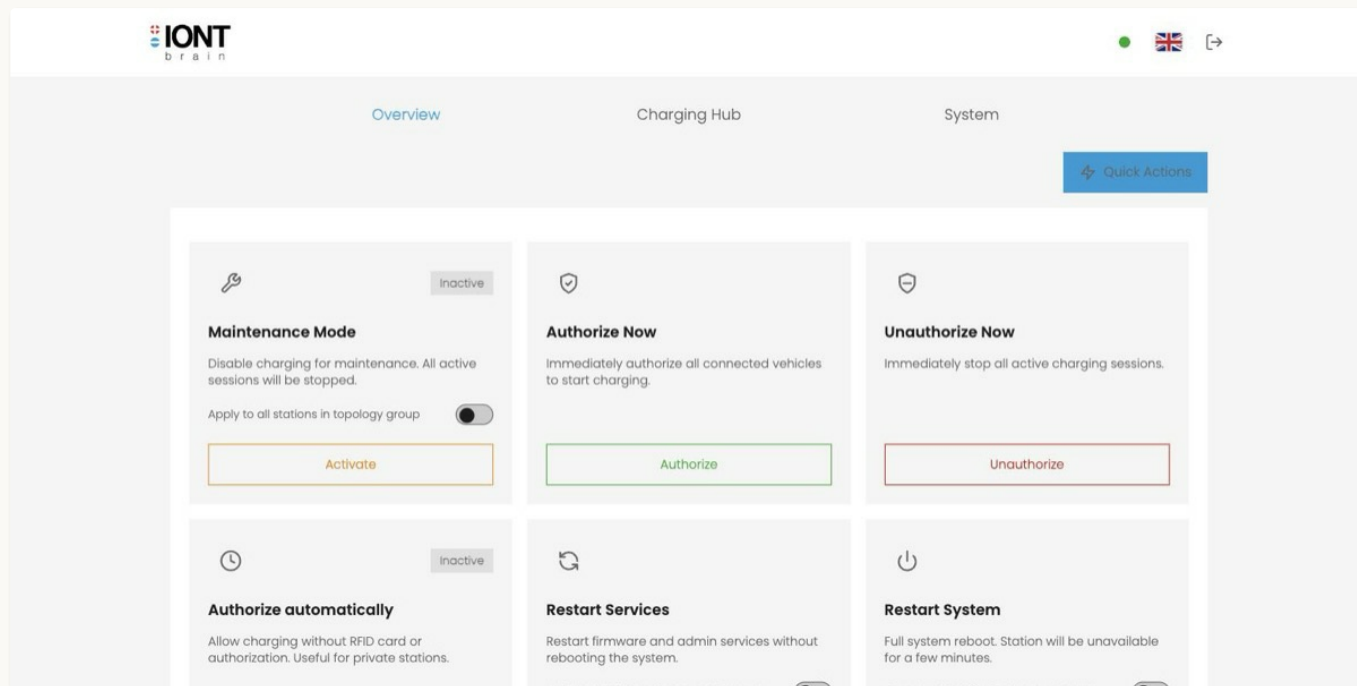


Fig. 4: Quick actions panel

- » **Maintenance mode** (Režim údržby): disables charging for maintenance; all active sessions are stopped.
- » **Authorize now** (Autorizovat nyní): immediately authorizes all connected vehicles and starts charging.
- » **Cancel authorization** (Zrušit autorizaci): immediately stops all active charging sessions.
- » **Authorize automatically** (Autorizovat automaticky): allows charging without an RFID card or authorization (suitable for private stations).
- » **Restart services** (Restartovat služby): restarts the firmware and admin services without a full system restart.
- » **Restart system** (Restartovat systém): full restart; the station is unavailable for a few minutes.
- » **Identify device** (Identifikovat zařízení): all LED strips blink 3× for physical identification of the station.

Be careful with bulk actions. Restart system, Maintenance mode and Cancel authorization interrupt ongoing charging. If the toggle “Aplikovat na všechny stanice v topologické skupině” (Apply to all stations in the topology group) is on, the action runs on the whole group of stations.

B

TOP MENU: CHARGING HUB

Everything about charging itself. This section has its own vertical sub-menu with items 1–7; some have an “**Přehled** / **Nastavení**” (Overview / Settings) toggle at the top.

1 Vertical menu: **Charging Hub** / **This station** (*Tato stanice*)

The “**Přehled**” (Overview) tab shows device identification: station name, serial number, model and hardware configuration.

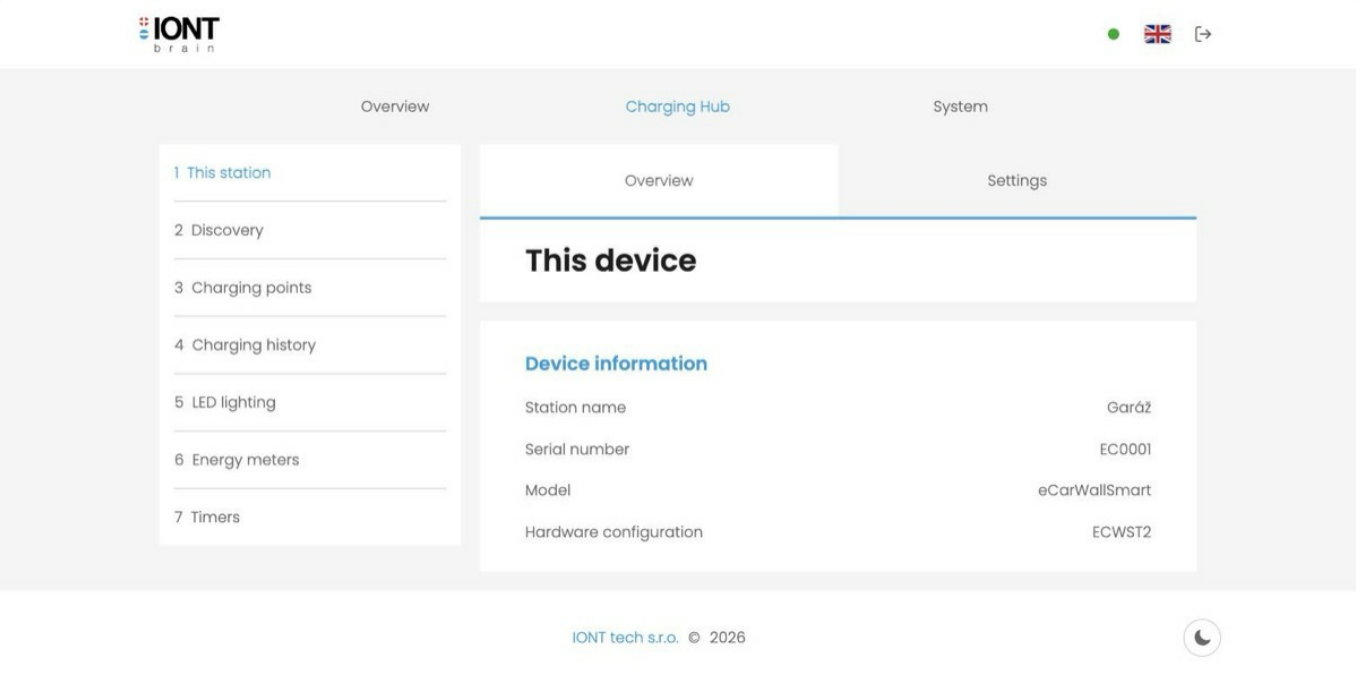


Fig. 5: This station — device information

The “**Nastavení**” (Settings) tab holds the main charging configuration, split into blocks. Each block is saved with its own “**Uložit**” (Save) button.

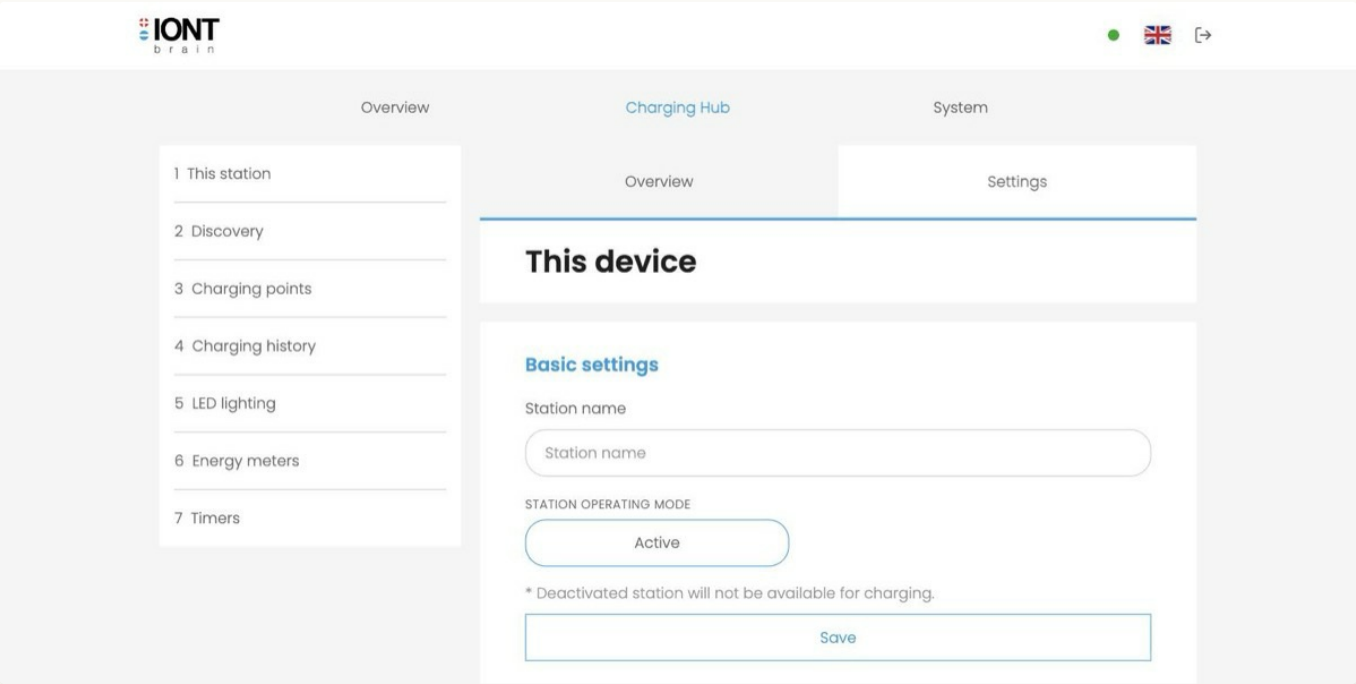


Fig. 6: This station → Settings — Basic settings

- » **Basic settings** (Základní nastavení): station name and **Operating mode** (Aktivní/Active or Deaktivováno/Disabled). A disabled station is not available for charging.
- » **Authorization** (Autorizace): the “**Autorizovat automaticky**” (Authorize automatically) toggle.
- » **Charging** (Dobíjení): strategy **Boost / Normal / Eco**, **Maximum charging power [W]** (station-wide upper limit — leave 22000 W unless the supply or contract limits you below that) and the **Charging recovery** toggle after a power outage.
- » **Electrical grid** (Elektrická síť): number of phases, nominal voltage and breaker ratings.

The screenshot shows two sections of the settings interface. The top section, titled 'Authorization', contains a toggle switch for 'Authorize automatically' which is currently turned off, and a 'Save' button. The bottom section, titled 'Charging', contains a 'Charging strategy' selector with three options: 'Boost', 'Normal', and 'Eco' (which is selected). Below this is a 'Maximum charging power [W]' field with a value of 0 and minus/plus adjustment buttons. A note states: '* Station-wide upper limit on delivered power. Leave at 22000 W unless your feeder or supply contract caps you below the circuit breaker capacity.' There is also a 'Charging restoration' toggle switch which is turned off, with a note: '* Enables charging restoration after power outage.' A 'Save' button is at the bottom of this section.

Fig. 7: Settings — Authorization and Charging (Boost/Normal/Eco strategy)

The screenshot shows the 'Electrical network' settings section. It includes a warning: '* You change the settings in this section at your own risk — incorrect values may damage the equipment or lead to unsafe operation.' The 'Number of phases' is set to 3 (with 1 phase also available). The 'Nominal voltage [V]' is set to 230. The 'Main breaker value [A]' is set to 25. The 'Station breaker value [A]' is set to 16. Each of these three settings has a note: '* Incorrect setting may lead to charging errors.' or '* Incorrect setting may cause equipment damage, risk of electric shock, or unexpected breaker tripping under heavy load!'. A 'Save' button is at the bottom.

Fig. 8: Settings — Electrical grid (here 3 phases, 230 V, main breaker 25 A, station breaker 16 A)

Only change the "Electrical grid" block if you know the installation. Incorrect breaker, voltage or phase values can damage the device, cause a risk of electric shock, or trip the breaker unexpectedly under load.

2 Vertical menu: **Charging Hub / Discovery** (Vyhledávání)

Finds other IONT stations on the same network. For each station found you see the connection status, when it was last seen, its IP address and its topology and energy group membership. The trash icon removes one entry; “**Vymazat vše**” (Clear all) removes the whole list.

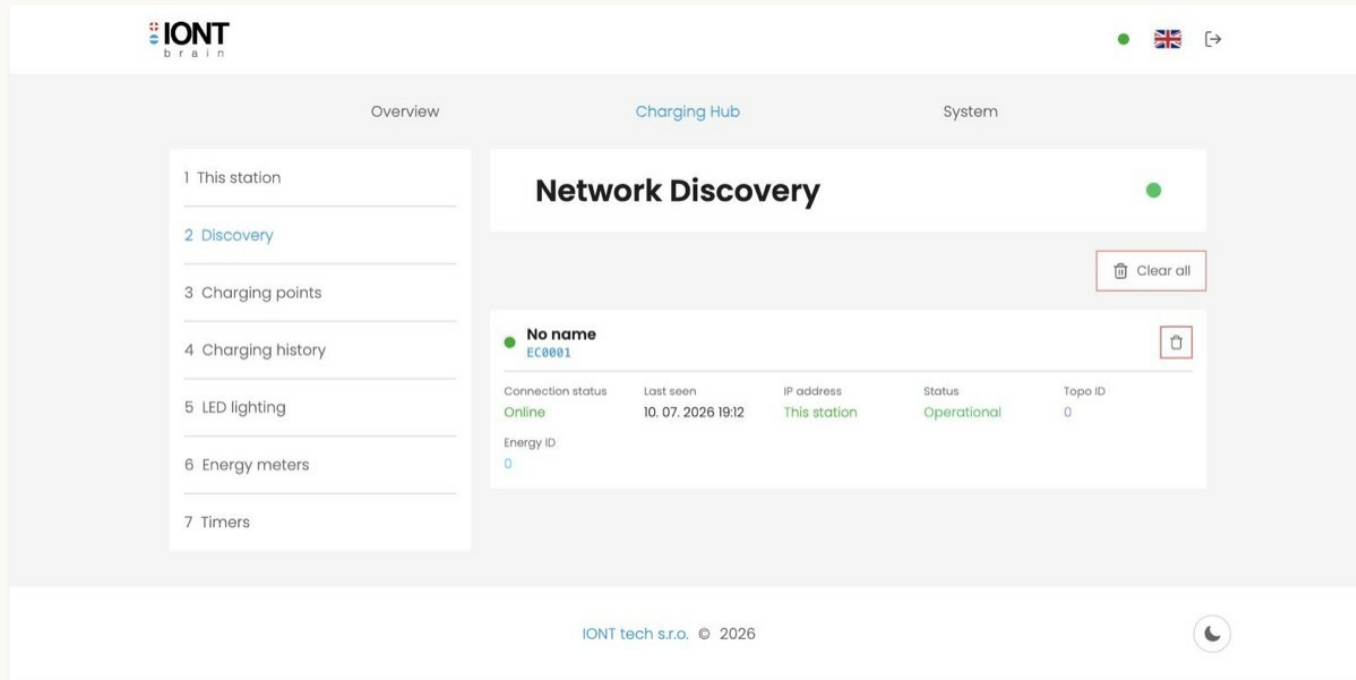


Fig. 9: Network discovery of stations

3 Vertical menu: **Charging Hub / Charging points** (Dobíjecí body)

A detailed view of each charging point (EVSE). The “**Detail**” tab shows configuration, power limits, live per-phase measurement (U / I / P) and the last session.

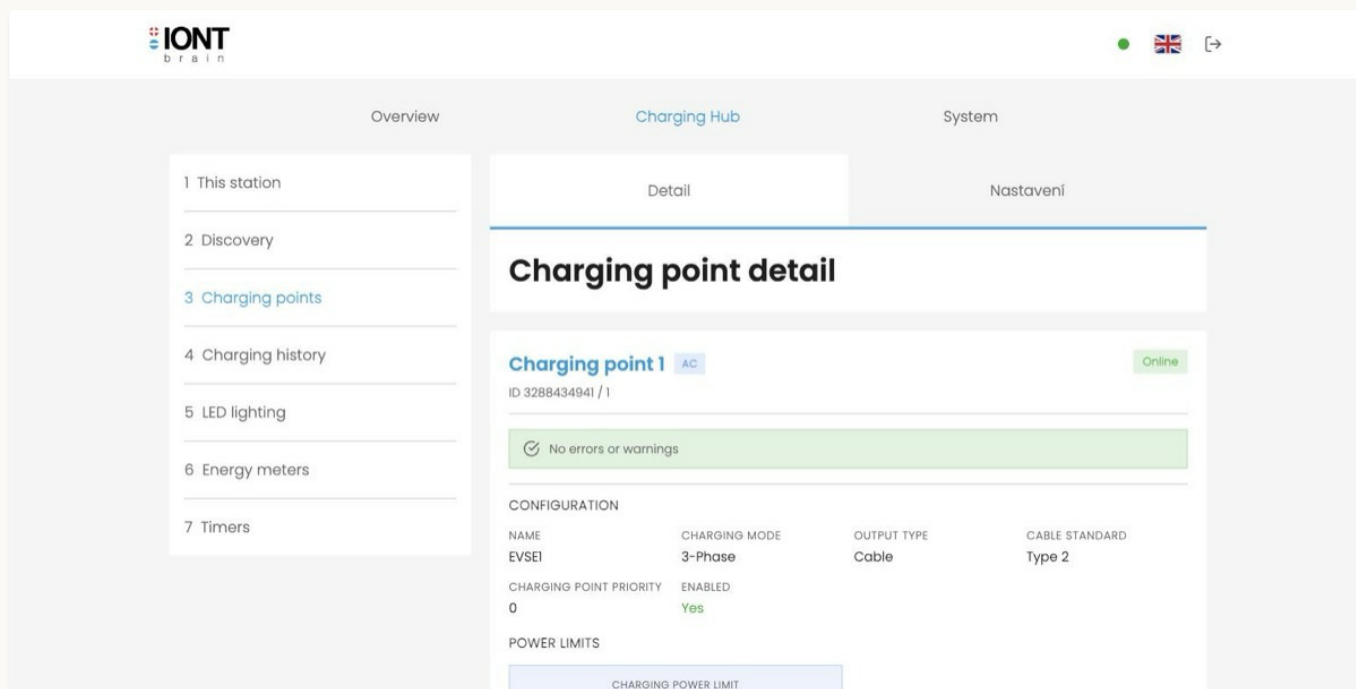


Fig. 10: Charging points — Detail

The “**Nastavení**” (Settings) tab lets you rename the point and change its priority and operating mode.

- » **Custom charging-point name** (Vlastní název): optional label for the point.
- » **Charging-point priority** (Priorita): a lower number means higher priority when power is shared between points.
- » **Operating mode** (Provozní režim): **Aktivní**/Active or **Deaktivováno**/Disabled.

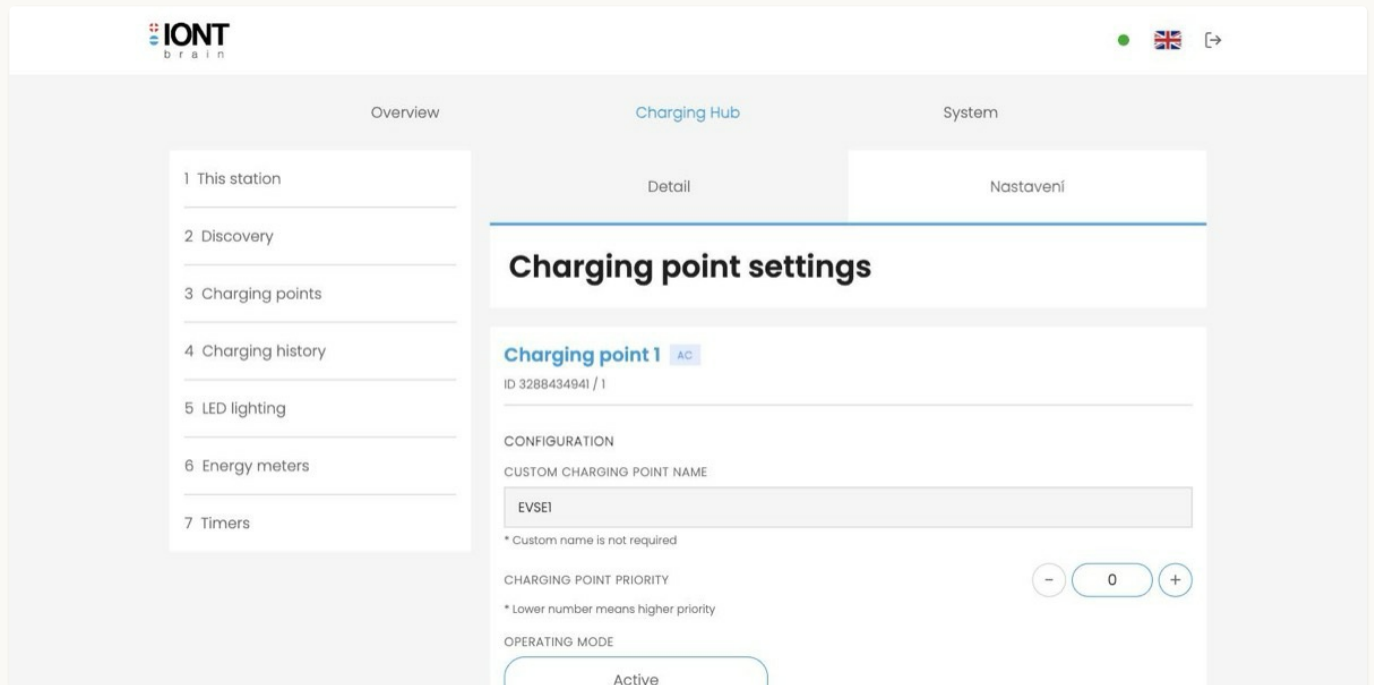


Fig. 11: Charging points → Settings

4 Vertical menu: **Charging Hub** / **Charging history** (*Historie dobíjení*)

A daily-consumption chart (kWh) and a list of individual sessions — start/end, authorization method (Remotely, Timer...), connection time, charging time and consumption.

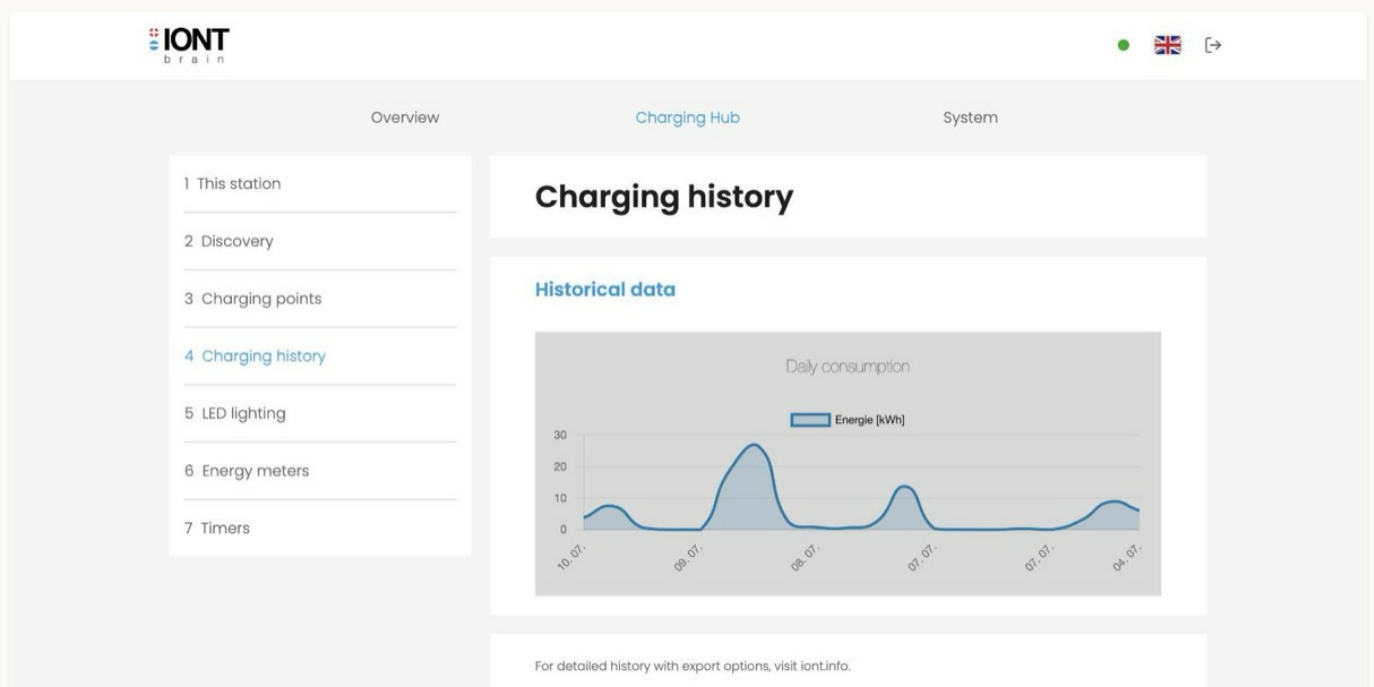


Fig. 12: Charging history — daily consumption chart

Data export. For detailed history with export use the **iont.info** portal, which the interface links to.

5 Vertical menu: **Charging Hub / LED lighting** (*LED osvětlení*)

Controls the station's signalling LED strips.

- » **Lighting behaviour:** on/off and **Maximum brightness** (0–100 %).
- » **Night mode:** reduced brightness at night — either fixed start/end times, or automatic sunset/sunrise times based on the geographic location (the location can be loaded from the IP address).
- » **State colours:** separate colours for initialization, idle (with/without authorization required), idle with an active timer, charging, finished charging and insufficient current; can be reset to defaults.

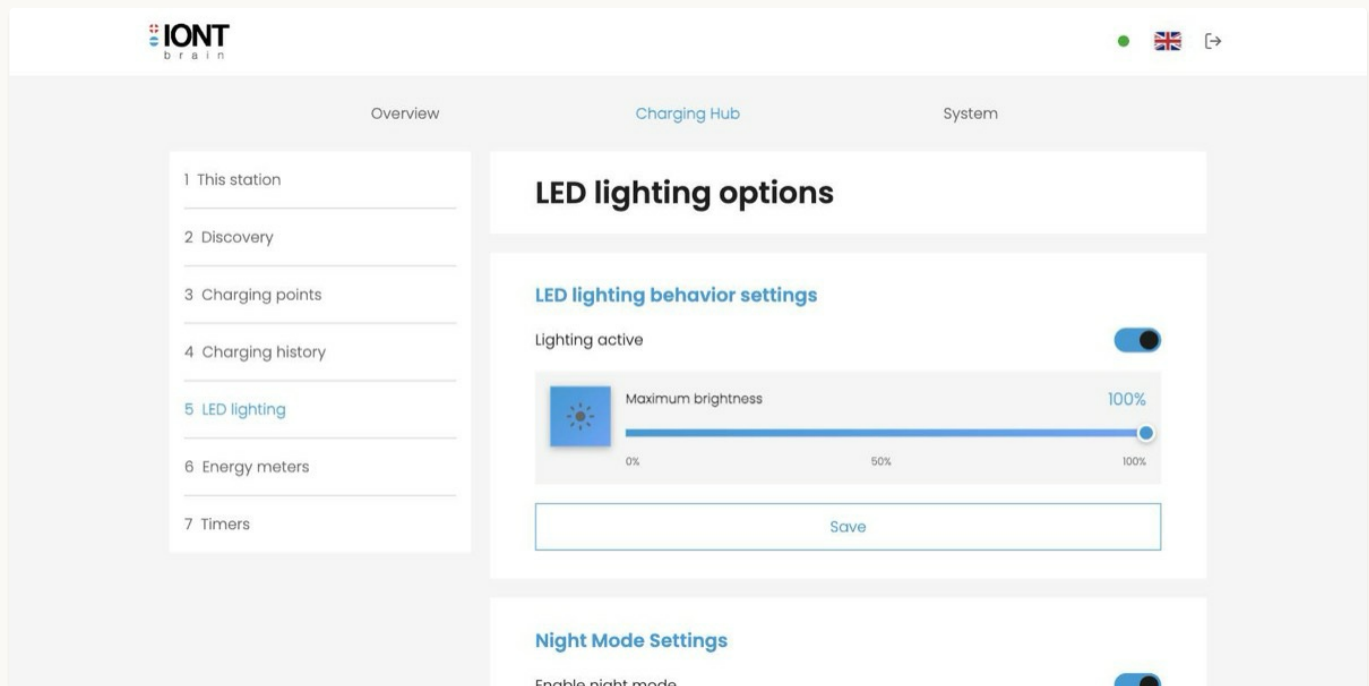


Fig. 13: LED lighting options

6 Vertical menu: **Charging Hub / Energy meters** (*Elektroměry*)

An external meter (here a **Shelly 3EM**, connected over TCP/IP at `192.168.0.112:502`) is used for dynamic load balancing — the station uses it to watch the building's total draw so it does not trip the main breaker. You see the total power and per-phase measurement.

1 This station

2 Discovery

3 Charging points

4 Charging history

5 LED lighting

6 Energy meters

7 Timers

Energy meters

Energy meter 1

PAIRED WITH EVSE

Pripojeno

shelly - 3em

P
243.38 W

CONFIGURATION

CONNECTION TYPE
TCP/IP

IP ADDRESS
192.168.0.112:502

PAIRED CHARGING POINT
-

LAST MEASUREMENT TIME

10. 7. 2026 19:13:59

PHASE	U	I	P
1	242.02 V	0.42 A	-8.13 W

IONT tech s.r.o.

Fig. 14: Energy meters — the connected Shelly 3EM

B · CHARGING HUB

7 Vertical menu: **Charging Hub** / **Timers** (Časovače)

Schedule automatic charging at set times (e.g. a cheap night tariff). For each timer you set:

- » **Name** (Název) and the **Active** (Aktivní) toggle.
- » **Start time** (Čas spuštění) and **End time** (Čas ukončení).
- » **Days of the week** (Dny v týdnu) — Mon–Sun.

Save a new timer with “**Uložit**” (Save); an existing one can be edited (“**Uložit změny**” / Save changes) or deleted (“**Smazat časovač**” / Delete timer).

1 This station

2 Discovery

3 Charging points

4 Charging history

5 LED lighting

6 Energy meters

7 Timers

Timers

Add timer

Name

Enter timer name

Active



Start time

00:00



Stop time

00:00



Days of the week

Fig. 15: Timers — the form for scheduling charging

C TOP MENU: SYSTEM

Configuration of the device itself, the network, users and maintenance. The vertical sub-menu has 9 items; some have further tabs (Overview / Settings / Synchronization).

1 Vertical menu: **System** / **System** (*Systém*)

- » **System time**: time zone, **Automatic time**, NTP server address and the synchronization interval.
- » **Restart**: *Restart services* and *Restart system*.
- » **Factory reset** (Tovární nastavení): erases all user data and restores defaults.

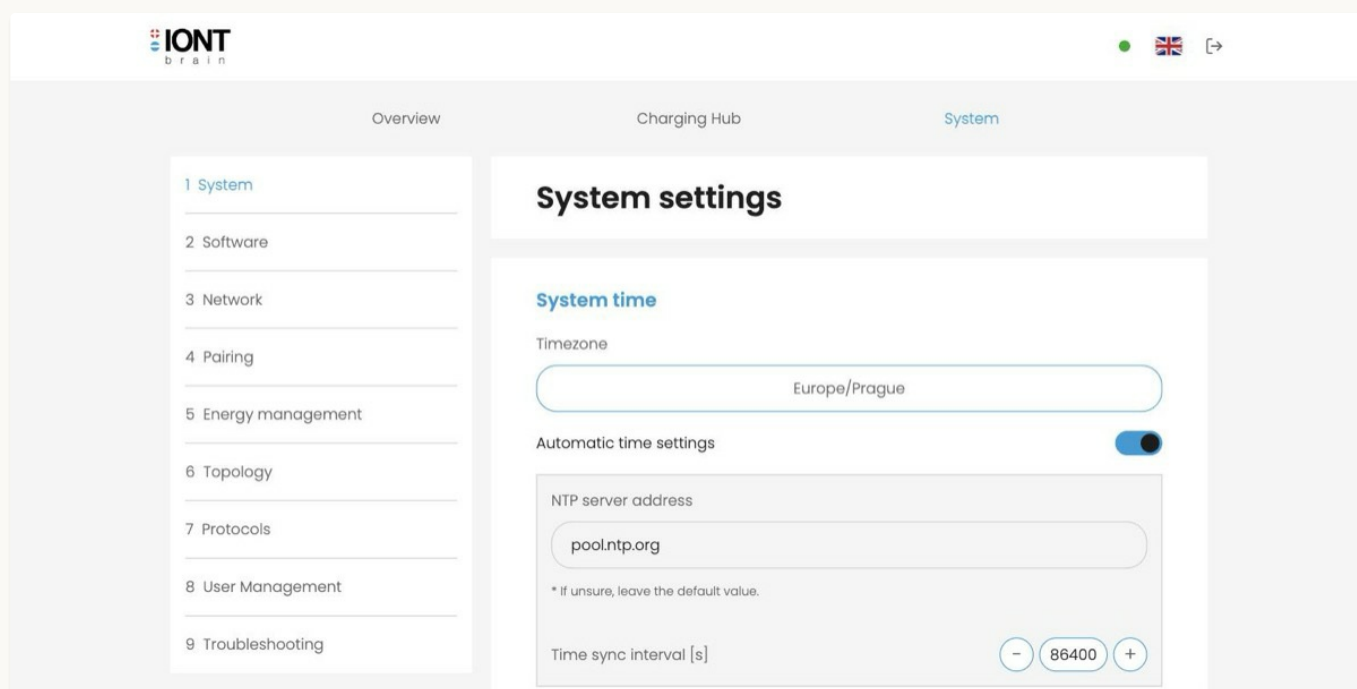


Fig. 16: System settings — system time

A factory reset cannot be undone. It erases all configuration and user accounts.

2 Vertical menu: **System** / **Software**

Shows the software version and the latest available version. You can update online with “**Aktualizovat systém**” (Update system), or **manually** by uploading a firmware package (`.tar.gz` , `.tgz` , `.tar.xz`).

1 System

2 Software

3 Network

4 Pairing

5 Energy management

6 Topology

7 Protocols

8 User Management

9 Troubleshooting

Software Information

Software Information

Software version

3.1.159

Updates

Latest version

3.1.159

Already up to date

Manual Update

* Upload a firmware update package (.tar.gz, .tgz, or .tar.xz) to install manually.

Fig. 17: Software information and update

3 Vertical menu: **System** / **Network** (*Sít*)

Has three tabs — “**Přehled**” (Overview), “**Konfigurace**” (Configuration) and “**Zabezpečení**” (Security).

- » **Overview**: network status — WiFi, Ethernet, IP and MAC addresses. An “**Aktivovat Hotspot**” (Activate hotspot) button.
- » **Configuration**: connecting to WiFi (scan networks, SSID, password), forgetting a saved WiFi and DHCP settings.
- » **Security**: hotspot password (WPA2, 8–63 characters), MAC and IP address filtering, and the toggle for communication with the IONT.info server.

1 System

2 Software

3 Network

4 Pairing

5 Energy management

6 Topology

7 Protocols

8 User Management

9 Troubleshooting

Overview

Configuration

Security

Network settings

Activate Hotspot

Network Status

WiFi Connection

Disconnected

MAC Address (WiFi)

de:35:7d:9c:bf:47

Ethernet Connection

Connected

IP Address (Ethernet)

192.168.0.60

MAC Address (Ethernet)

2c:cf:67:b5:3a:76

Fig. 18: Network → Overview — network status

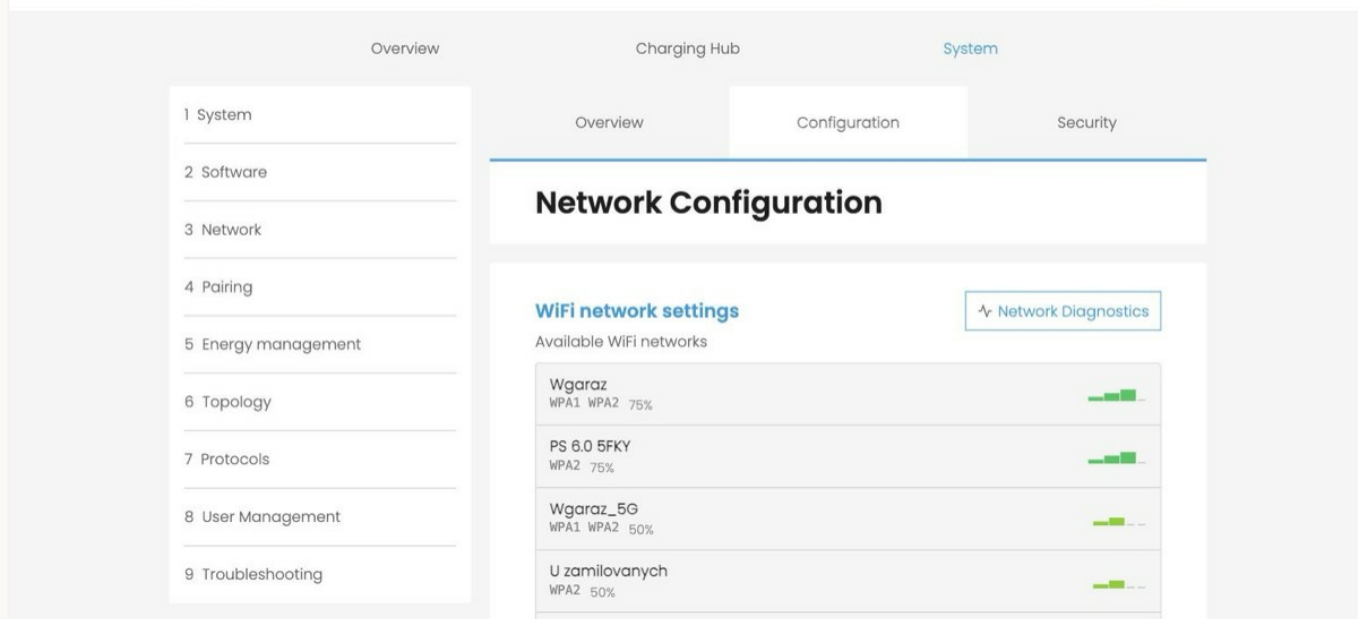


Fig. 19: Network → Configuration — WiFi and DHCP settings

Activating the hotspot. Once enabled, the hotspot creates the station's own WiFi network. It is active only for a short time (~30 s) and its name (SSID) contains a different number each time — watch for the currently broadcast name when connecting. Set the hotspot password on the **Security** tab.

IONT tech s.r.o.

C · SYSTEM

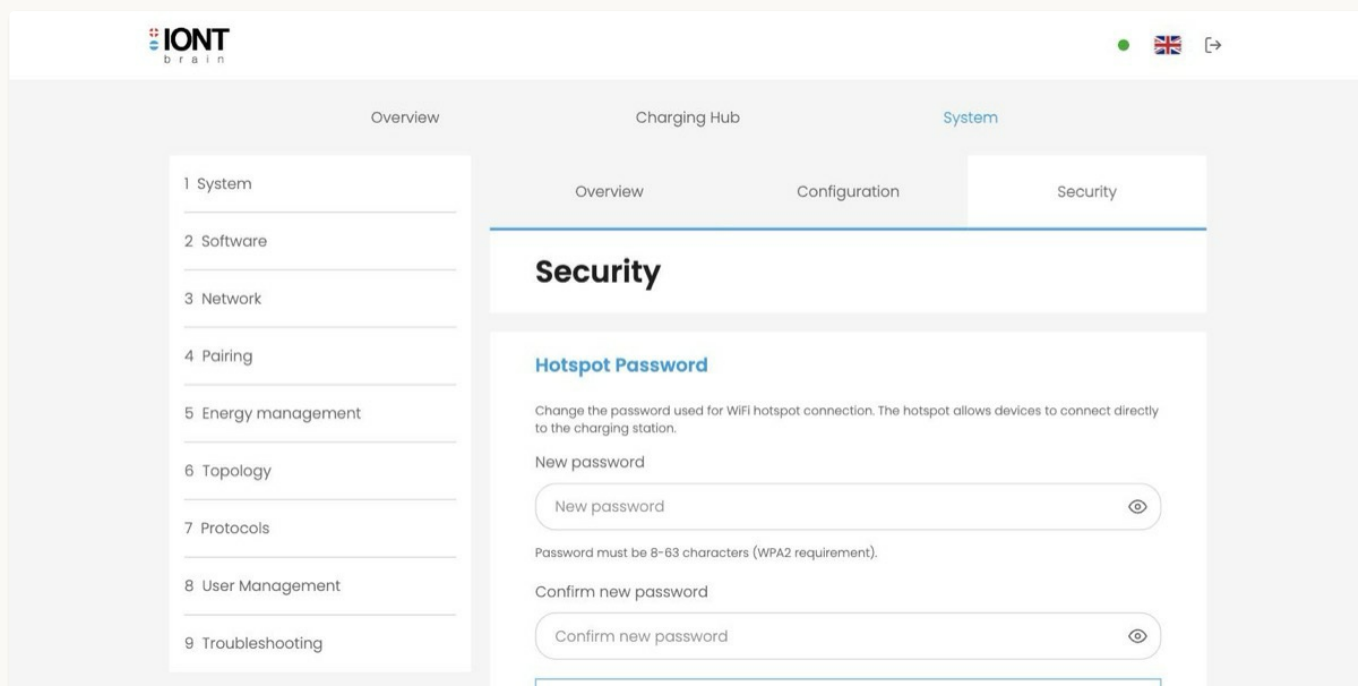


Fig. 20: Network → Security — hotspot password and access filtering

Keep communication with IONT.info enabled. Otherwise the station cannot be managed via the mobile app or remote web interface. Set IP/MAC filtering carefully — a wrong entry can lock you out.

4 Vertical menu: **System** / **Pairing** (Párování)

Pairs the station with the mobile app. The “**Spustit párování**” (Start pairing) button generates a temporary **pairing code** that

you enter in the app. The status shows whether pairing is currently in progress.

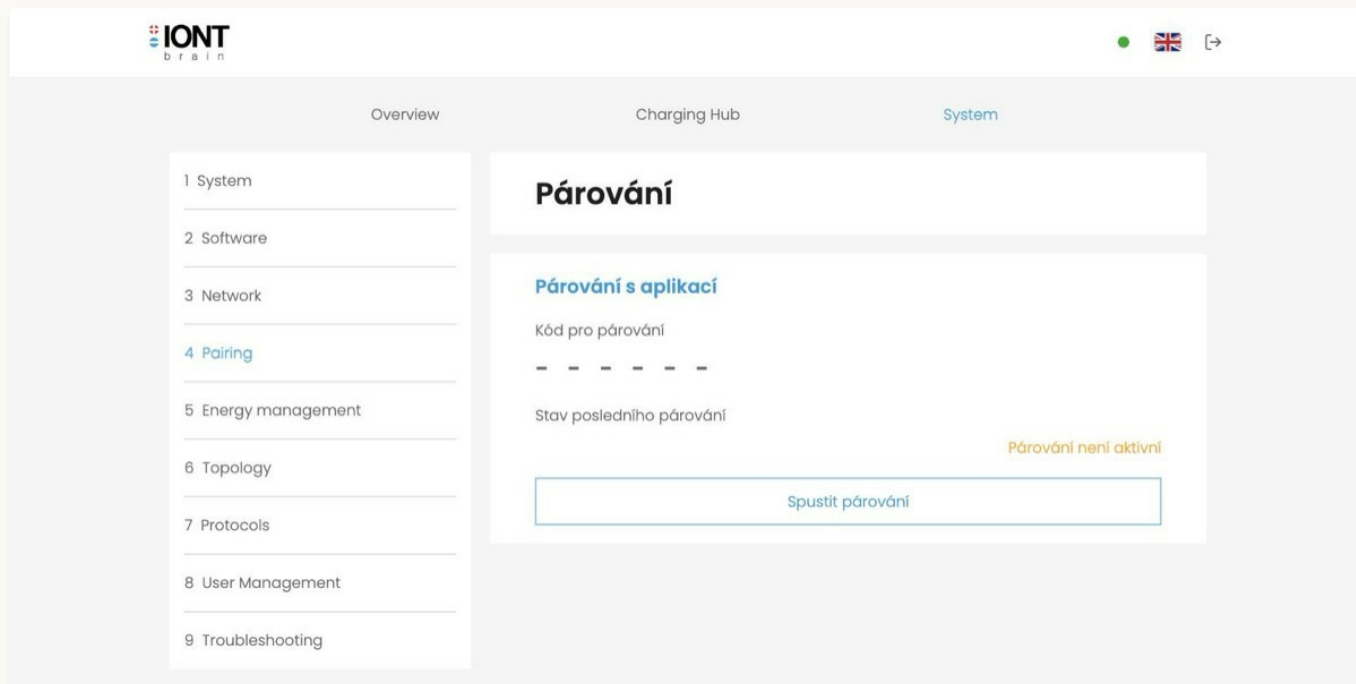


Fig. 21: Pairing with the app

IONT tech s.r.o.

C · SYSTEM

5 Vertical menu: **System** / **Energy management** (Řízení energie)

The **energy group** is used to manage the flow of shared energy between several devices. To link stations for energy sharing they must be on the same network and have the **same group id**. You set the group id, the group key and whether station discovery is allowed; the group members are listed below.

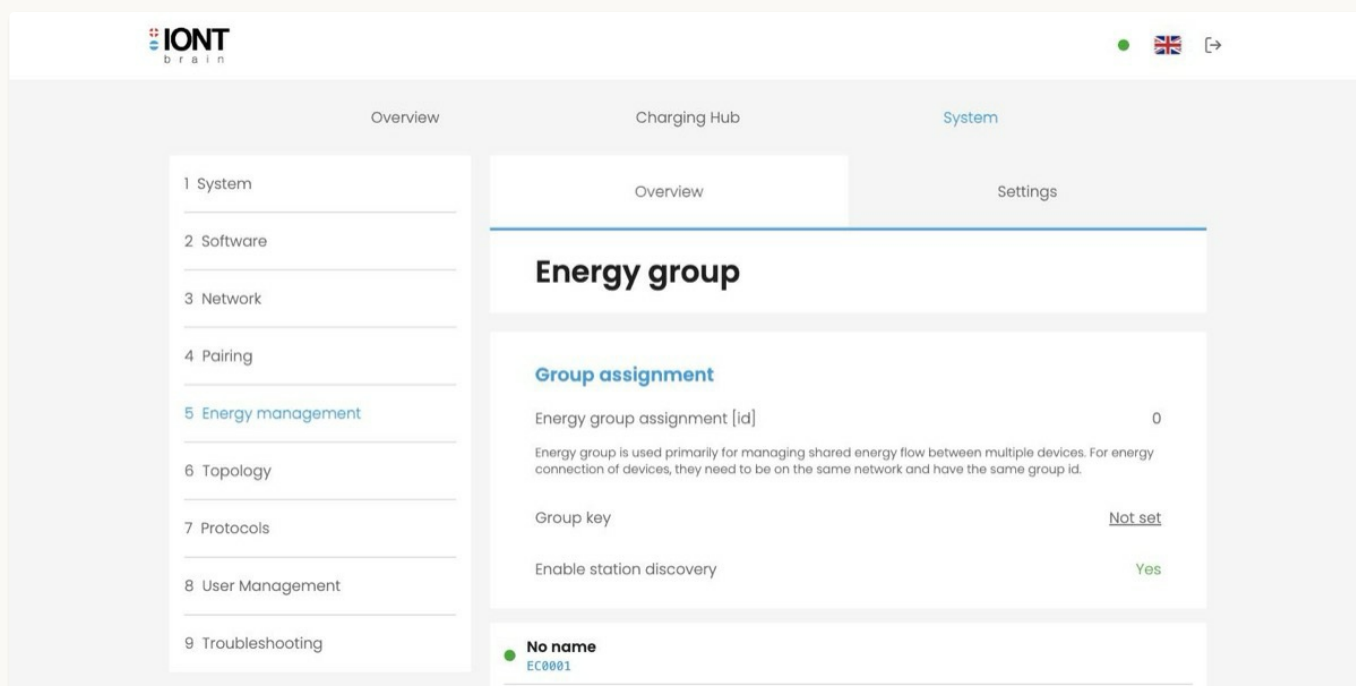


Fig. 22: Energy group

6 Vertical menu: **System** / **Topology** (Topologie)

The **topology group** synchronizes the display content and some settings between stations (again by shared group id). It has Overview / Settings / Synchronization tabs.

1 System

2 Software

3 Network

4 Pairing

5 Energy management

6 **Topology**

7 Protocols

8 User Management

9 Troubleshooting

Overview

Settings

Synchronization

Topological group

Group assignment

Topological group assignment [id]

0

Topological group is used primarily for synchronizing display content and some settings. For topological connection of devices, they need to be on the same network and have the same group id.

Group key

[Not set](#)
 **No name**
EC0001

Connection status

Online

Last seen

10. 07. 2026 19:15

IP address

This station

Status

Operational

Topo ID

0

Fig. 23: Topology group

The groups differ in purpose. The *energy* group shares power between stations; the *topology* group unifies display and settings. A station can be in both.

IONT tech s.r.o.

C · SYSTEM

7 Vertical menu: **System** / **Protocols** (*Protokoly*)

Integration protocols for higher-level systems. The “**Přehled**” (Overview) tab shows the service status; “**Nastavení**” (Settings) enables and configures them.

- » **Modbus TCP**: in the sample **running** — listening on port 30502.
- » **MQTT**: stopped in the sample.
- » **OCPP 1.6**: stopped in the sample.

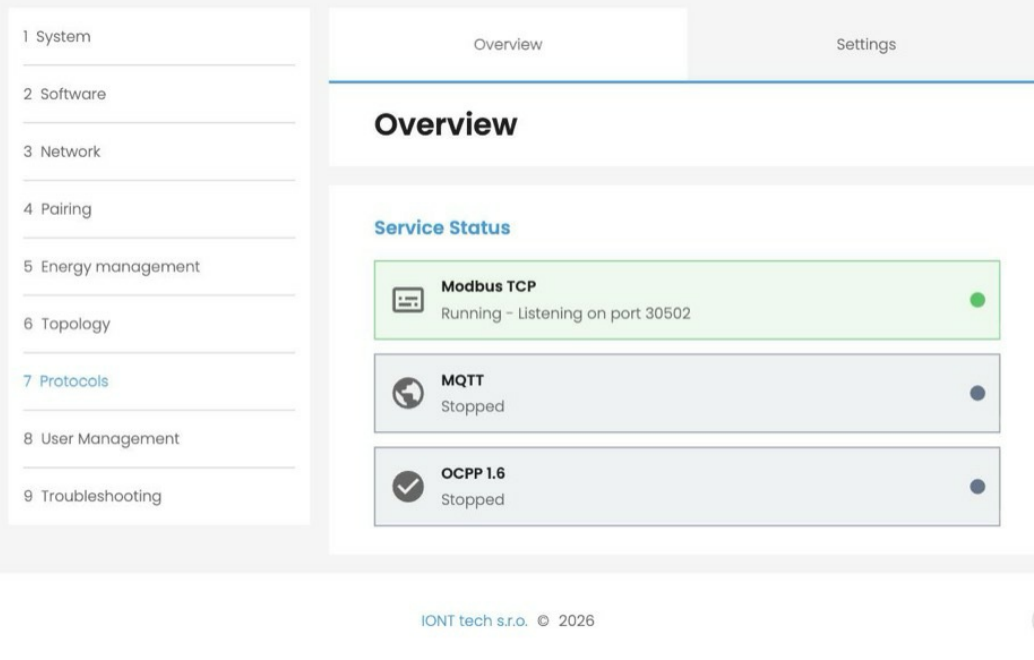


Fig. 24: Protocols — status of the integration services

8 Vertical menu: **System / User management** (Správa uživatelů)

A list of user accounts with roles. For each account you can “**Deaktivovat**” (Deactivate) or “**Změnit heslo**” (Change password). Predefined roles: **admin**, **finance**, **marketing** and **monitoring**.

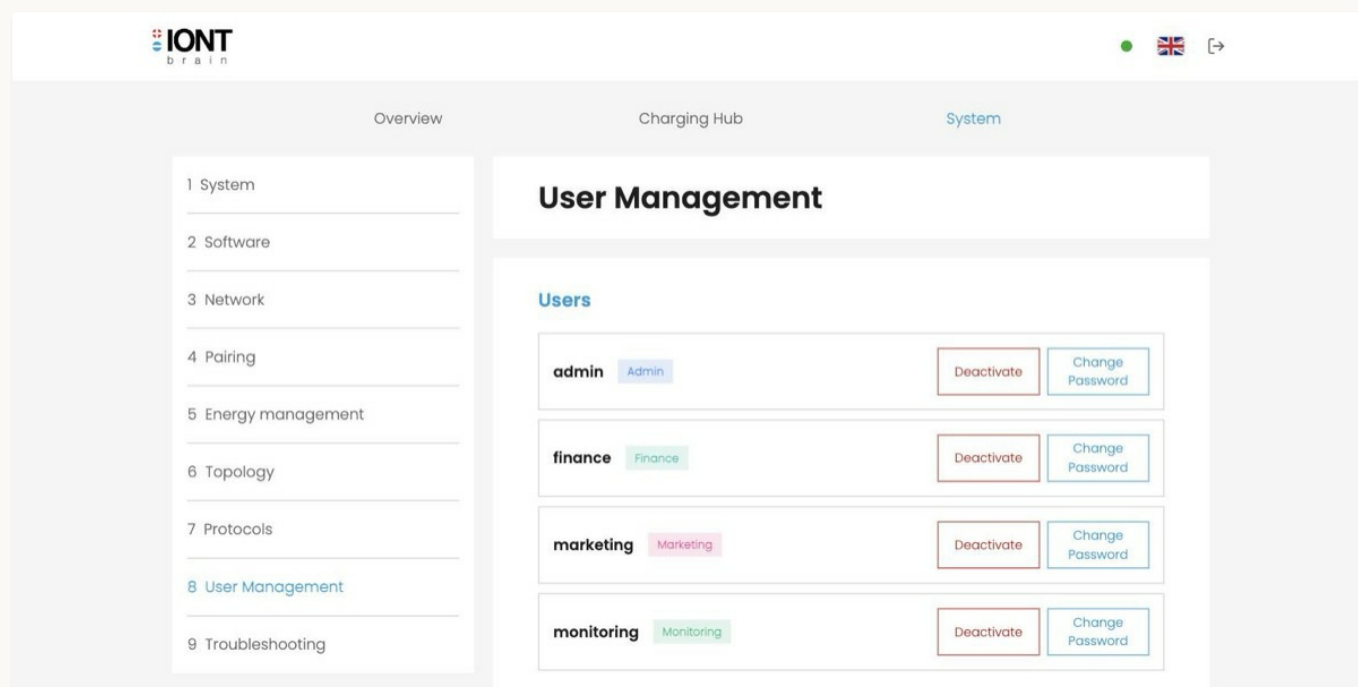


Fig. 25: User management — accounts and roles

C · SYSTEM

9 Vertical menu: **System / Troubleshooting** (Řešení potíží)

Quick diagnostics. **System status** shows individual components in green/grey (Firmware, Server, Charging points, Energy meters, RFID readers, Timers, Discovery, Protocols). There is also **Network diagnostics** (Run diagnostics) and **Error reporting** — describe the problem, attach screenshots and submit the report.

1 System

2 Software

3 Network

4 Pairing

5 Energy management

6 Topology

7 Protocols

8 User Management

9 Troubleshooting

Troubleshooting

System Status



Firmware

Firmware is running



Server

Connected to IONT server



Charging Points

All 1 online



Energymeters

All 1 online



Fig. 26: Troubleshooting — component status overview

SAFETY

SAFETY & RECOMMENDATIONS

- » **Change the default password.** The `admin/admin` login is only the default — set a strong password under *System* → *User management*.
- » **Perform risky actions deliberately.** Restart system, Maintenance mode and Cancel authorization interrupt ongoing charging.
- » **Electrical parameters** (phases, voltage, breakers) should only be changed to match the actual installation.
- » **A factory reset is irreversible** — it erases all configuration and users.
- » **Before filtering IP/MAC**, make sure your own device is on the allow-list so you don't lock yourself out.
- » **Keep IONT.info communication active** for remote management via the app.

» **Saving per block** — each settings block has its own *Uložit* (Save) button; remember to save the block you changed.

Guide created by walking through the live admin interface of station **Garáž (EC0001)**, model **eCarWallSmart**, firmware **3.1.159**. The interface may differ slightly with a newer firmware version.