

Green Motion DC EV chargers Commissioning guide for third-party OCPP servers



Powering Business Worldwide

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1. Introduction

Before you start

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1.1 The scope of this document

This document briefly explains configuring OCPP parameters for connection to a third-party backend server on the Green Motion DC range of products.

2. Configuring connection to the backend server

The Green Motion DC EV charger can be configured via a web portal using the configuration page. The web portal is accessible from a laptop, connected via Ethernet to the internal Teltonika RUTX09 modem/router.



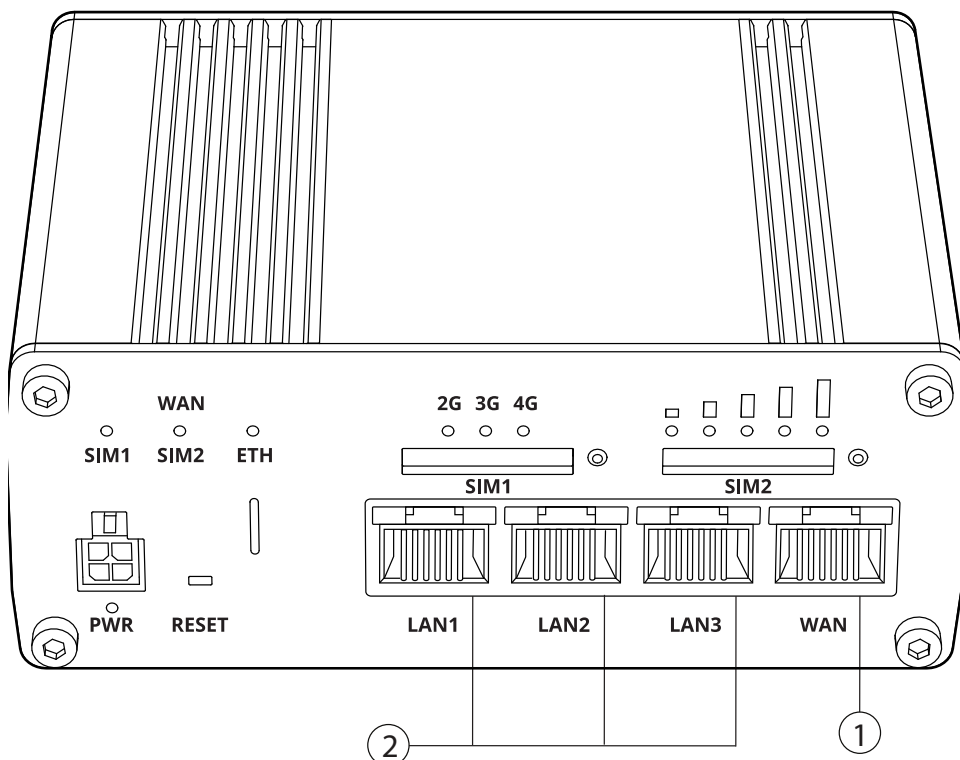
The web portal is supported by Chrome, Opera, and Firefox web browsers. It is not supported by the Safari browser.

2.1 Accessing the configuration page via Ethernet

To access the configuration page via Ethernet, proceed as per the following steps:

- Step 1.** Turn the EV charger OFF using the circuit breaker.
- Step 2.** Gain access to the internal Teltonika router inside the unit (consult the documentation for more information)
- Step 3.** Connect a laptop with an RJ-45 cable to any of the LAN ports of the Teltonika router (see Figure 1)
- Step 4.** Turn the EV charger ON using the circuit breaker. Wait for the LED indicator on the EV charger to turn green.

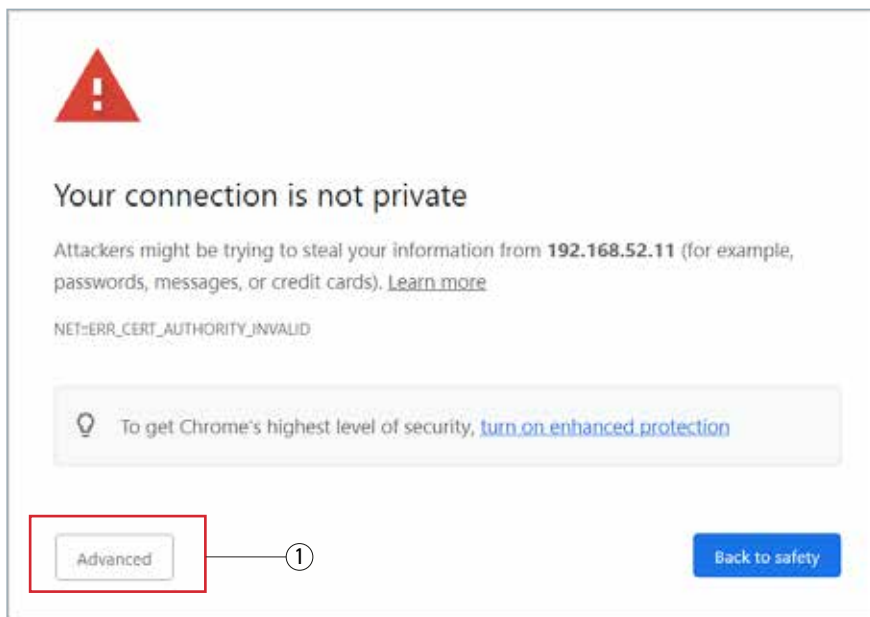
Figure 1. Teltonika RUTX09 modem/router



Tag	Description
①	WAN Ethernet port
②	LAN Ethernet port

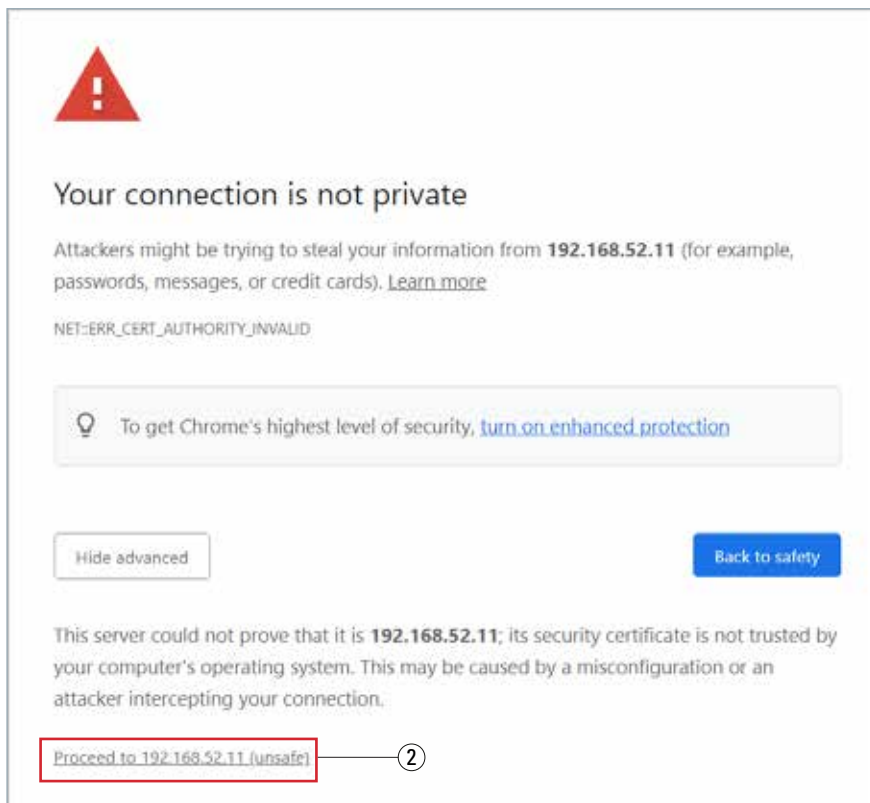
Step 5. Using a web browser, navigate to the address: <http://192.168.52.11>. You may see a warning message before you get to the configuration page. You can safely ignore this warning and proceed further (see Figures 2 and 3):

Figure 2. Privacy warning



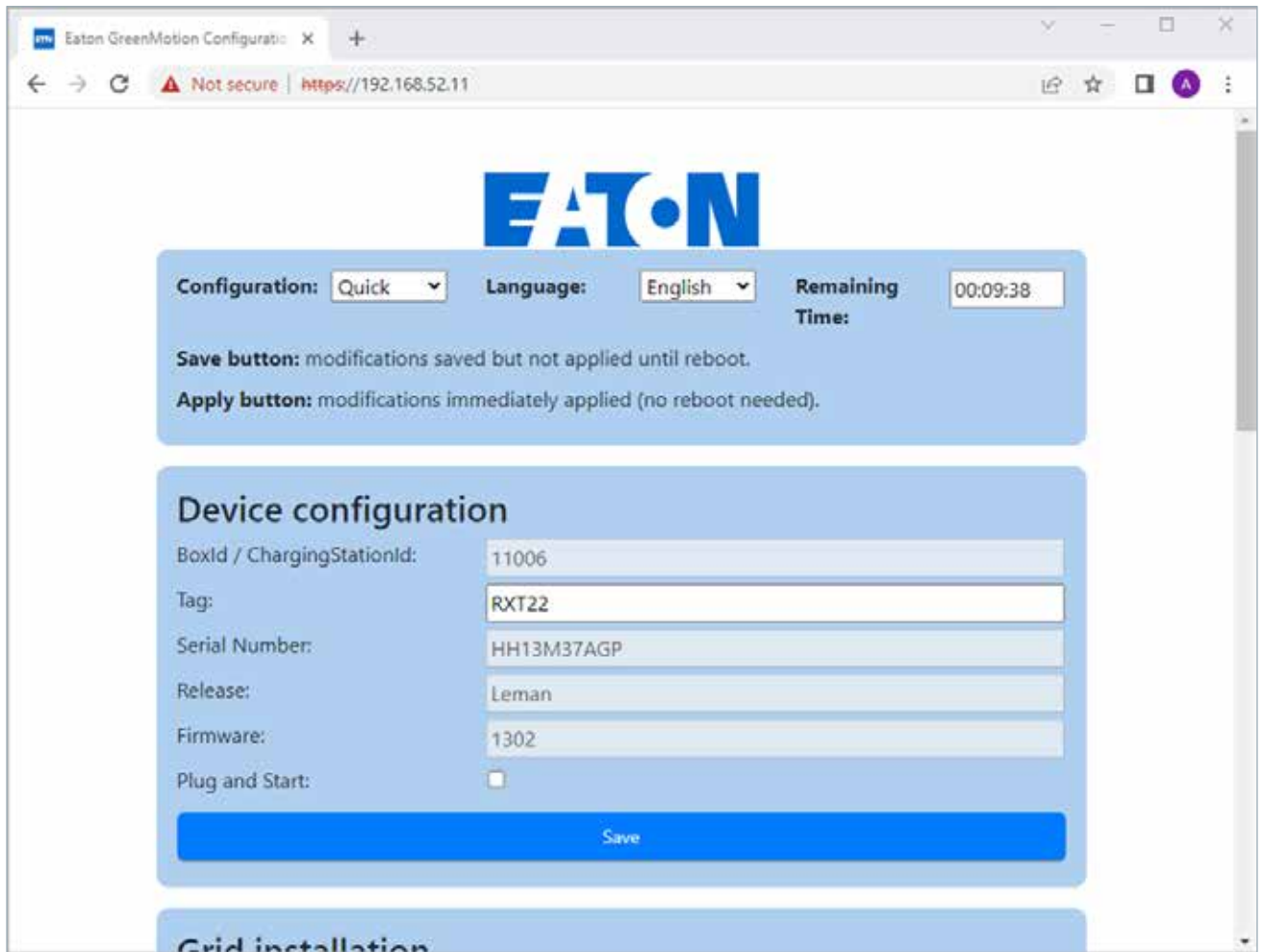
Click the “Advanced” button (1). A new section will open, offering additional options (Figure 3).

Figure 3. Privacy warning - advanced options



Click the “Proceed to 192.168.52.11 (unsafe)” hyperlink (2) to proceed to the configuration page.

Figure 4. Configuration page



If the fields are blank after the configuration page is loaded, try clearing the browser cache.

When connecting the EV charger via the Ethernet, configuration session is active for 30 minutes. After 30 minutes, the EV charger must be restarted for the configuration session to be resumed.

2.2 OCPP configuration

The Green Motion Building EV charger connects to the Eaton Charging Network Manager (CNM) backend using the OCPP 1.6-J protocol. The **OCPP configuration** section is preconfigured and no changes are required when connecting to Charging Network Manager (CNM).

Figure 5. OCPP configuration section



The screenshot shows the 'OCPP configuration' section of a web interface. At the top right, it says 'CONNECTED'. Below this, there are four input fields: 'Server URL' with the value 'wss://ocppj.greenmotion.ch/ocppj/v1.6/{Boxid}', 'Security Profile' with a dropdown menu showing '2 - TLS user/password authentication', 'User' with the value '9916', and 'Password' with a masked field '*****'. A blue 'Save' button is located at the bottom of the configuration area.

In case the EV charger is used by a Charge Point Operator (CPO) with a third-party backend server, the default configuration parameters must be updated with the parameters provided by the CPO according to the following steps:

- Step 1.** Go to the **OCPP configuration** section.
- Step 2.** In the "Server URL" text box, enter the URL of the third-party backend OCPP server.
- Step 3.** Select a security profile for the OCPP from the drop-down menu. It is recommended to use security profile 2: TLS-based credential authentication¹.
- Step 4.** In the "User" text box, enter the username to access the OCPP server.
- Step 5.** In the "Password" text box, enter the password to access the OCPP server.
- Step 6.** Click "Save" and "Restart App" in the **Reboot and Apply** section at the bottom of the configuration page.

¹ The security profile must match the profile used on the backend server.