

A person wearing an orange jacket is holding a smartphone. The phone screen shows the 'GARO' app interface with the following text: '10:44', 'GARO Price updates', 'Departure time: 11:00 2023-12-29', 'Battery charge of charge', and 'Battery level: 100% 20% 20% 80%'. The 'GARO' logo is overlaid in large white letters in the center of the image.

GARO[®]

Adding a Sim Card & Network Connections :
GLB+, GTB+ LS4 - Version 1

Adding a Sim Card & Network Connections

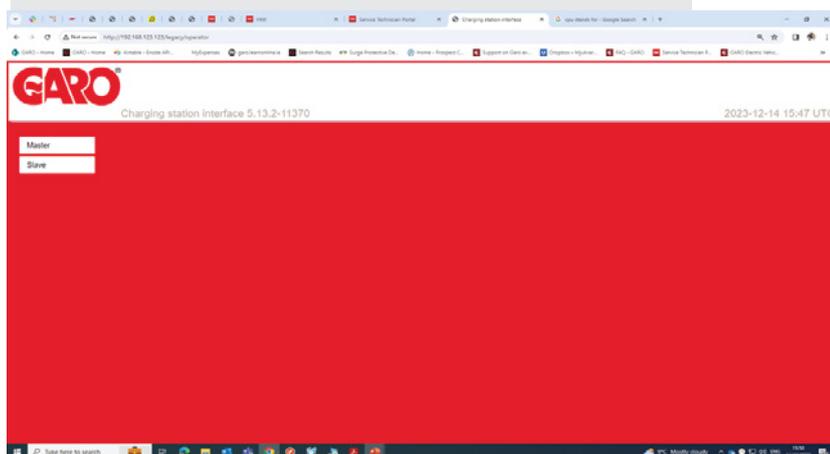
Logging into the charger controller - Step 1

You will need: A Laptop and a micro-USB to USB cable. This should be plugged in from your laptop to your charge controller. If the charger has two charge controllers make sure you plug into the charge controller on the right-hand side and DO NOT remove any cables or links between the charge controllers.

When you have that done you will need to open a web browser and type in your IP address (192.168.123.123/operator) to access the charge controller.

Click on "Master", which is the left-hand side charge controller. Then "Operator". It will ask for username and password:

Username: operator
Password: cherry_zone



Step 2

OPEN ANOTHER TAB ON YOUR BROWSER

Click on "Slave", which is the right-hand side charge controller. Then on "Operator". It will ask for username and password:

Username: operator
Password: yellow_zone OR cherry_zone



Step 3

1. Insert the sim card into the sim card slot(in the left-hand side controller for the dual chargers CC1.)
2. Once the sim card is inserted follow next steps for setting up the parameters



Step 4

1. Once logged in to the chargers interface, go to operator menu.
2. Click on connection type and choose GSM from the drop down menu.
3. Fill any APN, PIN's , Passwords provided by the sim provider
4. Press save and continue with the rest of the configuration if required and reset the charger once you finish with all parameters.

Note All configurations for network or OCPP in the interface as seen below in the master controller.

The screenshot shows the 'OCPP Mode' configuration page. The 'OCPP Mode' dropdown is set to 'OCPP-J 1.6'. The 'SOAP OCPP URL of Backend (Standard OCPP)' is 'http://192.168.123.81:8080/OCPPSoapSer'. The 'Backend Whitelist (SOAP)' is empty. The 'Hostname (Binary OCPP)' is 'be.elinc.de'. The 'Port number (Binary OCPP)' is '444'. The 'WebSockets JSON OCPP URL of the Backend' is 'wss://ocpp.monta.app'. The 'WebSockets proxy' is empty. The 'WebSockets keep-alive interval' is '0'. The 'HTTP Basic Authentication password' is empty. The 'TCP Watchdog Timeout' is '10800'. The 'Enable OCPP whitelist' is 'Off'. The 'List of entries in OCPP whitelist' is empty. The 'Operator' menu item in the left sidebar is highlighted with a red box and a circled '1'.

The screenshot shows the 'GSM' configuration page. The 'Connection Type' dropdown is set to 'GSM'. The 'Access Point Name (APN)' is 'internet'. The 'APN Username' is empty. The 'APN Password' is empty. The 'SIM Type' is 'Classic'. The 'SIM PIN' is empty. The 'Network selection mode' is 'Auto'. The 'Modem Access Technology' is 'Auto'. The 'Scan network operators at boot' is 'Off'. The 'Requested Network operator' is empty. The 'Network operator name format' is 'Alphanumeric Short'. The 'Operator' menu item in the left sidebar is highlighted with a red box and a circled '4'.

Step 5

You should be able to see Connection state as connected and details of the sim card as bellow.

Charging station interface 5.20.10-13283 (Master controller) 2023-11-30 10:15 UTC

OCPP ChargeBoxIdentity (ChargePointID)	M5012855-5	ID that is sent to the backend and used by the backend to identify the ChargePoint.
OCPP State	IDLE (available)	State of OCPP at connector 1.
Type2 State	(A) Vehicle not connected PR: NO CABLE Plug not locked	State of TYPE2 socket at connector 1.
Signaled Current	0 A	Current (in Ampere) that is signaled to the vehicle via PWM.
Connection Type (Backend)	GSM OCPP-J 1.6	Current connection type used for communication with the backend.
Connection State (Backend)	Connected (send HB in 70 seconds [interval:240])	Current state of the backend connection on TCP level.
Backend uptime	00:00:02:52	Backend uptime (d:h:m:s).
Last backend error	No error	Last reported backend error.
Connection State (Modem)	OK APN session duration 0:00:03:11 (d:h:m:s) APN session traffic 0.00 KB	Show at which state in the connection sequence the modem is currently operating. Show OK when connected. Additionally, APN session duration and traffic are shown.
Last connection failure (Modem)	0,-1	Reason for the last modem APN connection failure
Free Charging	Off	Shows if free charging is enabled and, if applicable, with which OCPP behavior it is configured. Note that in case of master-slave scenario the slave will be automatically configured to the same mode the master uses.
Error(s)	No errors	List of errors currently present in the ChargePoint.
Events and errors list	Thu, 01 Jan 00:00:34 1970 : Unintended Reset - Power Outage?	List of the last events and errors with their timestamp.
RDC-M (RCMB) state	DC: OK, RDC-M (RCMB) Device Status (IEC 62955): OK Last transaction maximum DC: 0.1 mA Values DC: 0.0 mA	RDC-M (RCMB) protection state Maximum values of last transaction Current values
OCPP URL of this ChargePoint (Standard OCPP)	Not Available	The URL that the charger reports to the backend system. The backend system will use this URL to connect to the charger for any remote requests.

Error(s)	No errors	List of errors currently present in the ChargePoint.
Events and errors list	Thu, 01 Jan 00:00:34 1970 : Unintended Reset - Power Outage?	List of the last events and errors with their timestamp.
RDC-M (RCMB) state	DC: OK, RDC-M (RCMB) Device Status (IEC 62955): OK Last transaction maximum DC: 0.1 mA Values DC: 0.0 mA	RDC-M (RCMB) protection state Maximum values of last transaction Current values
OCPP URL of this ChargePoint (Standard OCPP)	Not Available	The URL that the charger reports to the backend system. The backend system will use this URL to connect to the charger for any remote requests.
IMSI	240021000208225	International mobile subscriber identity (IMSI), a value associated with the SIM card inserted into the built-in modem. If this number is properly read the SIM card is inserted correctly and can be read by the built-in modem.
IMEI	869101059175931	International mobile equipment identification (IMEI). A number associated with the hardware of the built-in modem. If this number is present this device has a built-in modem and can properly communicate with the modem.
ICCID	8946072016290057202	Integrated circuit card identifier (ICCID) of the SIM card inserted into the built-in modem.
Requested Network operator		The name of the network operator to be used in manual 'Network selection mode'.
Mobile Network Operator	3 UK 3	Name of the network operator the built-in modem is currently connected to.
Available networks		List of network operators that are available and visible using the currently selected antenna. This value is only properly filled if requested via the 'Scan network operators at boot' configuration parameter.
Network registration mode	Enable with location	The current network registration mode of the modem which informs about the technology (2G, 3G, 4G) and about the registration (home network, roaming...)
Network registration state	Registered (Roaming)	Registration state to the mobile network.
Modem access technology	FDD LTE (LTE BAND 3, channel 1392)	Shows which access technology (2G, 3G, 4G) the modem is currently using.

Step 6

1. If LAN connection is required instead of the 4G
2. Under operator menu choose the correct connection type (Ethernet for LAN connection).
3. Under is the option to change the Auto to static IP address if required

The screenshot displays the 'Charging station interface 5.13.2-11370' configuration page. The page is divided into several sections:

- OCPP ChargeBoxidentity (ChargePointID):** B0006331-68. ID that is sent to the backend and used by the backend to identify the ChargePoint.
- Connection Type:** Ethernet. The type of data connection used to connect to the backend system. Choose 'No Backend' to disable backend communication completely. While using GSM the wallbox can be connected to LAN/WLAN at the same time.
- Mode for ethernet configuration:** A dropdown menu is open, showing options: Auto (DHCP client), Static, and DHCP server. The 'Auto (DHCP client)' option is selected. A detailed description explains that 'Auto' uses DHCP, 'Static' uses predefined addresses, and 'DHCP server' assigns addresses to other clients.
- DHCP client settings:**
 - hostname: (empty)
 - request retries: 10
 - request timeout: 10
 - request delay: 10
- Static network configuration:**
 - IP: 192.168.0.100
 - netmask: 255.255.255.0
 - gateway: 192.168.0.1
 - DNS: 8.8.8.8
- WLAN enabled:** On. Enable or disable WLAN.

At the bottom, there are buttons for 'Save', 'Save & Restart', and 'Operator Default & Restart'. A note indicates that the password of the WLAN the ChargePoint connects to is automatically chosen.

NB If all settings are selected and the charger is still not online, please double check all physical connections and cable ends , router settings.

If all is connected, check for any IT restrictions (firewall ect.) If all of the above has not worked, please contact GARO support team, for further advice.



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