Setting a back office for chargers with: Bender Controller GLB+, GTB+ LS4 - Version 1 & 2

R

GARD Prin



Setting up a back office

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 on "Operator". It will ask for username and password:



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:





Step 3

- 1. After logging into the controller select 'Operator Menu'
- 2. Click on the drop-down menu on connection type
- 3. Select the appropriate option for the connection used

	192.168.123.123/legacy/operator/operator		९ ☆ 🛛 (
- Home 🖸 GARO - Home 🤧	a Airtable - Enode A MyExpenses 🔀 garo.learnonlin	e.ie 📕 Search Results IITT Surge Protective D (?) Home - Prospect C	🕼 Support on Garo e 🔯 Dropbox - Mjukvar 🚺 FAQ - GARO 🔚 Service Technician 🚺 GARO Bectric Vehi
ARO	Charging station interface 5.13.2	2-11370	1970-01-01 00:54 L
ate	OCPP ChargeBoxIdentity (ChargePointID)	B0006331-88	ID that is sent to the backend and used by the backend to identify the ChargePoint. <u>ahow more.</u>
rttings Default	Connection Type	Ethernet Kobackend	The type of data connection used to connect to the backend system. Choose 'No Backend' to disable backend communication completely. While using GSM the walloox can be connected to LANWLAN at the same time.
stem	Mode for ethernet configuration	USB WLAN Auto (DHCP client) v	Mode for ethernet configuration to be used for the ChargePoint 'Auto' uses DHCP to configure the ChargePoint's ethernet connection, 'Static' uses the addresses as filled in static network configuration IP, 'DHCP serve' assigns a predefined DHCP configuration to other DHCP clients in the same network (range T27.16.23.100- 172.16.23.254), netmask 255.255.050, gateway 172.16.23.1, DNS 172.16.23.1, The DHCP server's own IP is 172.16.23.1, Any static network configuration is ignored in case of DHCP server mode. Please consider to switch the 'WAN router' on if the DHCP server is analled.
	DHCP client hostname		Hostname string sent to DHCP server along with a DHCP request.
	DHCP client request retries	10	DHCP request number of retries before giving up.
	DHCP client request timeout	10	DHCP request timeout in seconds.
	DHCP client request delay	10	DHCP request delay between multiple requests in seconds.
	Static network configuration IP	192.168.0.100	Static LAN IP of the ChargePoint.
	Static network configuration netmask	255.255.255.0	Netmask to use for the LAN of the ChargePoint.
	Static network configuration gateway	192.168.0.1	Gateway to use for the LAN of the ChargePoint.
		0.0.0	DWC seconds use for the LAN of the Charge Daipt



Step 4

- Select the appropriate OCPP Mode . Usually OCPP J 1.6 is typically one and used by all back- office providers.
- 2. Change the WebSocket Json OCPP URL of the back end with the one provided by your backend provider (For example for Monta is wss://ocpp.monta.app).

C A Not secure 1	http://192.168.123.123/legacy/operator/operator	Search Results #17 Surge Protective De (?) Home - Prospect C C S) 🔍 🖈 upport on Garo ev 💟 Dropbox - Mjukvar 🚺 FAQ - GARD 🧫 Service Technican P 😭 GARD Stectic Vehic
e			
.M ings	OCPP Mode	OCPP-J 1.6 ▼ OCPP-S 15 OCPP-S 16	This parameter determines whether backend communication is done using the standard OCPP SOAPUSON variant or the propreary Binary OCPP variant of Ebbe Smart Technologies. The Binary OCPP variant so writing across NAT networks and therefore does not require a private APN for remote messages to arrive at the charge point. Also Binary OCPP uses much these data (factor 2016 of)) than standard OCPP Binary OCPP honever requires a Binary OCPP proxy on the backend side.
rator em	SOAP OCPP URL of Backend (Standard OCPP)	0CPP-815 0CPP-815 0CPP-816 100000000000000000000000000000000000	The HTTP URL of the OCPP backend system. This URL must be the SOAP endpoint. This parameter is only used IOCPP-S1.5 or 16. the standard OCPP mode is used. If this mode is used a SIM card with a private APR must be used if the charge point should receive remote commands from the backend system as most mobile networks use NAT for normal SIM cards which prevents connections from the backend system.
mentation	Backend Whitelist (SOAP)		List of IP's that are allowed to send requests to the Charging Station over SOAP.
ocumentation	Hostname (Binary OCPP)	be elinc.de	The DNS hostname or IP address of the binary ocpp proxy server for the backend system. This parameter is only used if Binary OCPP is selected for the TCP/IP mode.
	Port number (Binary OCPP)	444	TCP port of the proxy server for binary OCPP communication with the backend.
	WebSockets JSON OCPP URL of the Backend	wss://ocpp.monta.app	The WSWSS URL of the OCPP backend system. This URL must be the WSUSON endpoint and begin with "wss/" or "wss/". This parameter is only used if OCPP-J 1.6 or OCPP-J 2.0 mode is used. The ChargePoint's ID gets automatically appended when connecting to the backend.
	Websockets proxy		Specify the websockets proxy to connect to in the format HOST.PORT, whereby PORT is optional and set to 80 when not specified.
	WebSockets keep-alive interval	0	WebSockets keep-alive interval in seconds or 0 when unused. Using keep-alive on WebSockets layer is especially useful when using a NAT router between ChargePoint and backend. The ping-poing being sent prevents the NAT router from closing the websockets connection.
	HTTP Basic Authentication password		The password to be used for HTTP Basic Authorization. If left empty, HTTP Basic Authorization is not used.
	TCP Watchdog Timeout	10800	This is the time in seconds in which the connection to the backend can be not working until the system reboots. Set it to 0 to disable rebooting.
	Enable OCPP whitelist	Off v	Enables the use of the internal whitelist for storing RFID UID from the OCPP backend. If disabled, RFIDs even if reported from the backend with an expiry date are not addeed to an internal cache.
	List of entries in OCPP whitelist		List of colon-separated IDs for the cache. A maximum of 80 entries are shown. To clear the cache the ist must be empty. The listed IDs are added, while the other cache entries are not deleted. Emter IDs in the following format:
	Save white Save & Restart Operator D	efault & Reistart II 2038 (default) 🗸	

Step 5

- 1. Set the free charging to OFF.
- 2. If in doubt allow charging to OFF, or as per your back office provider request.
- 3. Press Save after changes.

ome 💽 GARO - Home	Airtable - Enode A MyExpenses 🔘 garo-learnonline.ie	Search Results IIT Surge Protective D (P) Home - Prospect C 🚺 Support on Garo e	😨 Dropbox – Mjukvar 🤇 FAQ - GARO 🚍 Service Technician 💽 GARO Electric Vehi
	Send error StatusNotifications	On v	This parameter determines whether OCPP status notifications that are meant to report and error (such as when the plug locking system is broken) should be sent to the backend system or not.
И	Send USB error StatusNotifications	017 ~	This parameter determines whether USB communication errors between master and slave are reported to backend.
gs ault	Strategy for StatusNotification state transitions	Occupied on Charging	This parameter determines on which conditions the ChargePoint changes into the OCCUPIED state in "Occupied on Charging" occupied is signaled only when authorization is there and a cable is plugged in. In "Occupied on Authorized" Phugged" the state changes to occupied already when the charger is authorized with nothing connected or when a cable/vehicle is connected but no authorized with active or yet.
itor	Allow long get configuration keys	v 110	Allows OCPP keys in get configuration command to be longer than 500 characters.
m	Disallow charging if OCPP queue full	Off 🗸	When set, a full OCPP message queue will cause an error state. Charging will be terminated.
	Free Charging RFID Tag for Free Charging with OCPP Full, fixed rfid modes		Allows charging without authorization via RFID or the backend. Charging is started immediately after a vehicle is connected. <u>show more</u>
	modes If in doubt allow charging		ameter determines whether a client is allowed to charge in case is stion cannot be processed because the backend is offine or not reachable. DN: the client is allowed to charge even if it cannot get authenticated from physical solved in case ChargePoint is offine by just plugging the car and without RFID authorizator.
	Installation Current Limit [A]	32	The 'Installation Current Limit' is the upper limit of the 'Operator Current Limit'. It must be below or equal to the 'Maximum Current' of the ChargePoint. This parameter cannot be charged by the backedo
	Operator Current Limit [A]	16	Maximum current (in Amperes) that can be signaled to the vehicle for charging. This value must be below or equal to the "Installation Current Limit" of the ChargePoint. It can be freely configured, even while charging. This parameter can be changed by the backend for energy management



Step 6

Version 2:

- 1. Choose the backend menu
- 2. Choose the connection type.
- 3. Set the OCPP mode, most current is OCPP J1.6
- 4. Use the websocket URL provided by your back office providers.

5. Press Save after changes.

ome 🚺 GARO - Home 🧖 Airtable - Enode A	MyExpenses 🚳 garo.Jearnonline.je 📕 Search Results 💷 Surge Protective D (9)	Home - Prospect C	Support on Garo e 👿 Dropbox - Mjukvar 🧃 FAQ - GARO 🧮 Service Technician 🚺 GARO Bectric Vehi
GARO			5.13.2-11370 1970-01-01 01:25 UTC 🚟 🗃 Logout
DASHBOARD	BACKEND		
NETWORK	Connection		
BACKEND	Connection Type	0	Ethernet
Connection	OCBR	0	No Backend
OCPP	UCFF		USB
° 1	OCPP ChargeBoxIdentity (ChargePointID)	0	WLAN +
M	OCPP Mode	(i)	OCPP-J 1.6 ¢
AUTHORIZATION	WebSockets JSON OCPP URL of the Backend	(i)	ws://eu-prod-socket.saascharge.com/websocket/CentralSystemService/
LOAD MANAGEMENT	Websockets proxy	(1)	
INSTALLATION	WebSockets keep-alive interval	0	0
SYSTEM	HTTP Basic Authentication password	(1)	
5	Send informative StatusNotifications	0	On 🔶
2	Send error StatusNotifications	0	On ¢
	Send USB error StatusNotifications	0	off
		0	Occurring on Charging
Type here to search	😰 🖬 🔩 🔥 🗿 🞯 🞾 💿 🗦 📕 🦛		📫 16°C Windy 🔨 😜 💭 di) ENG 12/11

1. Choose authorisation menu.

2. Set to free charging. If in doubt **allow charging to OFF** or as per your back office provider request.

- Home 🛛 🖸 GARO - Home 🥠 Airtable - Enode	e A MyExpenses 🔞 garo.learnonline.le 📕 Search Results ITT Surge Protective D.	(P) Home - Prospect C 💽 Sup	port on Garo e 👿 Dropbox – Mjukvar 💽 FAQ - GARO 🗖 Service Te	echnician G GARO Bectric Vehi
GARO	AUTHORIZATION		5.13.2-11370 1970-01	-01 01:29 UTC 🌺 🗃 Logou
	Free Charging			
	Free Charging		Off	\$
DASHROARD	If in doubt allow charging	Ű	On	\$
NETWORK	General 2			
BACKEND	Vehicle connection timeout [s]	(1)	45	
	Send Authorize for RemoteStart	(i)	On	٥
Eree Charoing	Stop Transaction Mode	0	Normal	٥
General	Lock Actuator only if authorized	0	Off	٠
RFID Settings	RFID Settings			
RFID Whitelists	RFID Tag letter case	(1)	Lower Case	٠
LOAD MANAGEMENT	Language of Display	(1)	Multi-Language EN-DE-FR-NL	\$
INSTALLATION	PEID Whitelists			
SYSTEM	KFID WIItensts			
S	Enable local whitelist	٩	Off	¢
2	Local whitelist learning mode	١	Off	۰
	Enable OCPP whitelist	(1)	On	٥
and the second se	List of entries in OCPP whitelist	(1)		

Technical Support Email: Technical@garo.co.uk Phone - 0121 3899 444

Stor.

Technical Support Email: Ev@garo.ie Phone - 01 866 5360

