ECClite Ecotap Controller Configuration



ecotap EVC4.x Controller Configuration Lite Edition User Guide

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ECClite

Ecotap Controller Configuration Lite Edition

Version 1.1, 2024-16-04

[internal & external usage]



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Version History

Version	Date	Author
1.0	21-03-2024	Ludo Stanziani
1.1	16-04-2024	Ludo Stanziani

History of changes:

- Version 0:
 - Creation
 - Chapters 5 to 10 are based in Tijn Lax's content in the original ECC Manager manual, adapted and made relevant to ECClite, by Ludo Stanziani (in a Product Owner Role).

Version 1.1:

• Add three table references, out of Jack de Veer's full EVC4 and EVC5 R&D Manuals to the JSON Parameters. By Ludo Stanziani (in a Product Owner Role).

Introduction

This document serves as a guide for updating firmware and modifying configuration via the ECClite.

With the lite version you can configure settings regarding; Power, Load- management/Grid and internet connectivity.

The lite version also protects you from changing any configuration on the station that could permanently damage it. If you still use the full ECC Manager instead of the lite version, you will do that at your own risk of voiding warranty.

Using ECClite is described step by step and can be applied to the EVC4.x, EVC5.x and the ECC.x controller that run the V32Rx software.

The following topics are addressed in this manual:

- Required hardware, software and related
- · Updating Firmware via the ECClite
- · Sending selected parameters to the

Important!

- A) Standard Factory settings .JSON files with selected parameters should <u>always be</u> supplied by Ecotap!
- 1. If the ECClite software is used in a way other than indicated in the manual, Ecotap cannot guarantee that the controller will work
- 2. Primary information- Ecotap Controller Configuration Lite Edition

ECClite is an application dedicated for owners, installers and operators of charging stations. Everything that can be done on this software tool, must in principle be done via remote commands from your selected backend. As the Ecotap stations are made for convenient remote control, in batch by using OCPP compatible backend platforms. That is especially the case for all parameters needed to determine the power and grid settings that match your charging infrastructure.

In most cases Ecotap manufacturing will have preset all communication data as such the station will automatically make connection to the backend determined in the purchasing process. If you need to check, correct or modify the backend connectivity, or if you can't access the backend to configure power and grid settings. You will need to use ECClite.

This software toolkit works only on the windows platform and only if the firmware on supported controllers is on version V32RXX and up.

To download the latest version & the manual, click here: https://www.ecotap.nl/ecclite/

Generic information about Updating your Firmware:

To update the firmware, you will need the manufacturer advised .BIN file. You can find the latest published firmware and their release notes on the web page: https://www.ecotap.nl/ecclite/

Mind that you should always check the release notes to evaluate if that firmware file is compatible to your type of controller module.

An update of the firmware of your station is best done remotely and in batch by the charge point operator via his OCPP-backend access.

In cases you need to do it manually, you can use this software toolkit 'ECClite'.

WARNING: a firmware update is different from commonly known software updates. If you update the firmware in technical terms, you flash the chip memory. That means that it completely rewrites itself. If you interrupt

this process by removing power or data cable. Your controller module can brick itself. And become useless. You lose your warranty and need to swap the controller module. If you don't know what you are doing, always first

consult the manufacturer Ecotap/Legrand.

Unlike with OTA (over-the-air) software updates. With firmware, you as owner of the device decide wetter or not you want to update your device to the manufacturer advised version.

If you have a stable version running on your charger, it is not advised to update. Only update if you read in the release notes that the update solves a problem hampers your charger operations. MIND that IT IS NOT possible to DOWNGRADE the firmware anymore. Project specific firmware on custom product should thus NEVER be upgraded!

OCPP Connectivity:

Because Ecotap Charging Stations are infrastructure objects, the OCPP connectivity to the selected backend platform is pre-configured in the factory. If connectivity is lost or connectivity settings are accidentally wiped and/or contracts with the backend provider are terminated and a switch to a new party is needed. You will need to reconfigure connectivity yourself.

To connect an OCPP backend platform, you will need receive information from the platform provider. Namely, the link to the backend. Called an Endpoint.

In most cases it will look like this:

Endpoint URL:

"wss://devices.ecotap.com/registry/ocpp/NL*ECO*1000"

The [NL*ECO*1000] part is unique to a singular charging station and it's backend page, called the OCPP-ID. Sometimes, if the backend has a kind of security lair. You receive one Token per charging station as well. That will match it's unique charging station OCPP-ID. It will look like here below;

Token: "53Umkk1q7rEM"

The above information for the Endpoint and OCPPID will be split in the following fields.

authorizationKey	NL*ECO*1000:53Umkk1q7rEM
☐ com_Endpoint	devices.ecotap.com: 443/registry/ocpp/#OSN#
com_OCPPID	NL*ECD*1000
com_Options	comMaster=0, Events=1, BlockBeforeBoot=1, Wdt=0, updSendInIdle=0, UseTLS=1, blockLgFull=0

In this case the [wss://] in the endpoint link you receive from the CPO is removed. If the link was [ws \underline{s} ://] you place in [com_Options] the value UseTLS=1.

If the link was [ws://] you place in [com_Options] the value UseTLS=0. As you can see after the [.com] part, a port number is added.

- Port :80 is WS
- Port :443 is WSS

The [NL*ECO*1000] part is replaced by [#OSN#], that will mean that now the endpoint to this backend is not anymore unique per charger, but is applicable to every charging station connected to this backend.

The unique OCPPID is then filled in after [com_OCPPID]. And this is the parameter unique to every charging

station.

If in the cases this charging station and OCPPID need an [authorizationKey] you will add that after the parameter. In that value field you start with the OCPPID, and [:] an after that the per charger unique key. In this example after [authorizationKey] it will look like this;

[NL*ECO*1000:53Umkk1q7rEM].

Mind that you can set this parameter and after that you can't read it again. This is for safety.

Required Setup

In order to use ECClite and its functionalities, there are several supplies that are required. Make sure these are present before proceeding.

Required Hardware

Product	Info
Computer (incl. 1x USB connection, type A)	To use the ECClite software tool.
USB to TTL cable	Cable to connect the controller with the computer (cable is proprietary to Ecotap). Article number: 3510019Supplied by Ecotap.
Ecotap controller (EVC4.x / EVC5.x / ECC.x)	The controller inside the charging station to be progra mmed / configured.
12V DC power supply	Properly working power supply to power on the controll er module inside the charging station.

Required Software

Name	Version	Info
ECClite	1.0.0 or later	Software for programming and changing configurations on the EV C4.x / EVC5.x / ECC.x controllers t hat at least have the V32 Firmware. This can be downloaded from the E cotap Website: https://www.ecotap.nl/ecclite/

Required Files

Name	Version	Notes
Factory standard ".Json" file. (optio nal)	Unique per charger model	A file containing all (correct) standard settings for selected para meters. To fall back on if you want to go back to factory settings. This sho uld be requested from Ecotap. Depending on the model of

		station you are using.
".bin" file (optional)	_	A file containing the (new) firmware. Required for updating firmware. This should be requested from Ecot ap. Only the latest release can be down loaded from the website: https://www.ecotap.nl/ecclite/ Older version / 'Legacy firmwares', can be requested at your technical advisors at Ecotap.

Preparing The Setup

The first step is to unzip the ECClite.EXE, to a folder on your PC or to a USB Stick.

Download the **ECClite.zip** file and save it to your computer. When doing so, choose a location that is easy to find on your PC.



Figure 5.1 – ECC manager .zip file.

(The zip-file icon may look different)

Right-click on the file and select Extract All.

An additional screen will now open, click extract again.

In the same location as the .zip file, there will now be a folder created with the same name.



Figure 5.2 – ECCmanager folder after unzipping zip file.

Open this folder and then double-click **ECClite.exe** to open the application.



Figure 5.3 – ECClite application.

ECClite will now start up and is ready to use.

As you can notice there is no installer needed. This software toolkit works as a pocket 'lite' version.

Note: when opening the application, it could occur that Microsoft Defender prevents the starting of it. If this is the case, see Chapter 9 on how to solve this easily.



Do not power on the module yet, during the following steps!

Connect the USB to TTL cable with the controller.

Attach the USB side of the cable to one of the computer's USB ports. At the other end of the cable, attach the green connector (to which the black, orange and yellow wires are connected) directly to the module. When doing so, make sure the connector is attached to the pins of the **RFID2 reader**, see the sticker with I/O layout on the controller:

For the EVC4.x controller:



Figure 5.4 – Connecting the USB to TTL cable to the controller (EVC 4.x).

For the EVC5.x/ECC.x controller:



Figure 5.5 – Connecting the USB to TTL cable to the controller (EVC 5.x).

Establish Communication with the Module.

Before changing the configuration, find out which COM port is used for serial communication. If the USB is not already connected to the computer and/or to the controller, do so first (see chapter 5).

Once the USB to TTL cable is connected to the computer, use the following key combination on the keyboard:



This will reveal the following screen.



Figure 6.1 – Pop-up window after clicking [Windows + X] key combination.

Next, click on **Device Manager.**

Look for the Ports (COM & LPT) heading and 'double-click' on it (or once on the arrow to the left of the name).

The visual representation of the menu's depends on the operating system that is used, and therefore can differ.

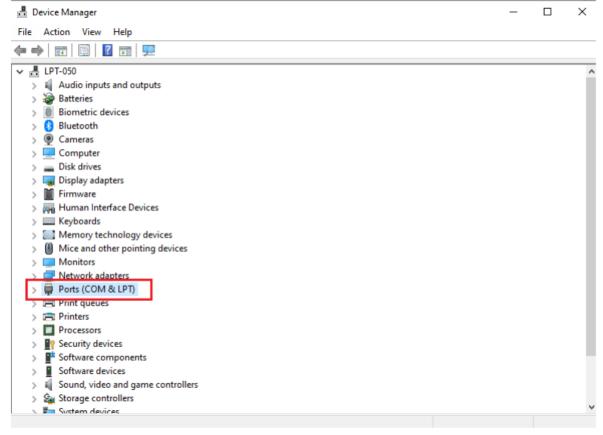


Figure 6.3 – Display active ports on the PC.

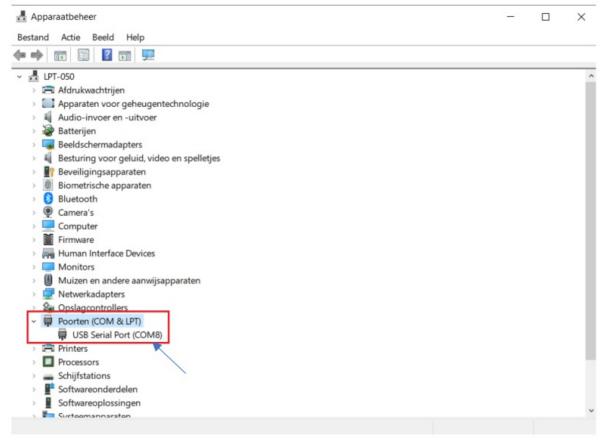


Figure 6.2 - Device manager overview

In case more than one "USB Serial Port (COMx)" are displayed, you can check which port is used for the controller. Simply disconnect the USB to TTL cable from your PC, and re-connect it: the COM port that disappears and appears again is the correct one.

In the example above, only one USB to TTL cable has been connected to the computer. So here, the COM port we are looking for is **COM8**. Note that the COM port may vary depending on the following (so always check the COM port first):

- The USB to TTL cable (with controller) is connected to another
- · A different USB to TTL cable is

Open ECClite.

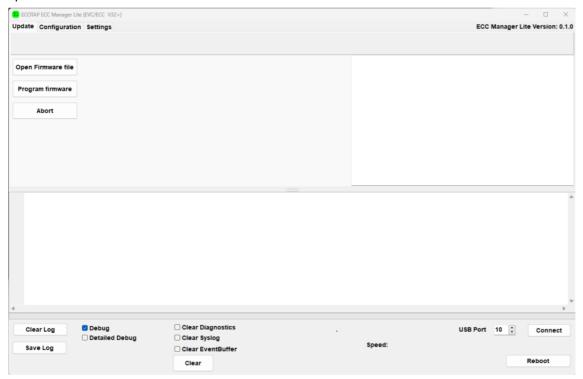


Figure 6.4 – ECClite.

Enter the COM number, which we looked up earlier, in the field next to **USB port.** So, in the case of this example, we enter **10** here.

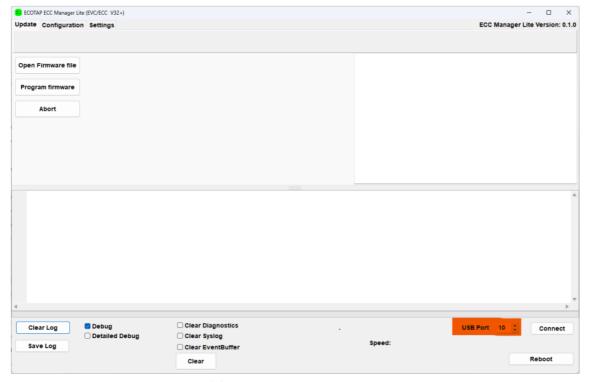


Figure 6.5 – Entering the correct COM port.

Now click on the **Connect** button at the bottom right of the ECC Manager, and then make sure the checkmark for **Debug** is checked (at the bottom left of the ECC Manager).

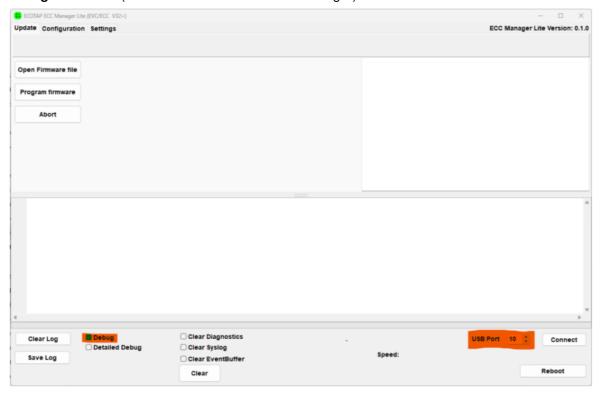


Figure 6.6 – Connect to the controller & check debug.

Connect the 12V+ pin of the controller, to the 12V+ of the DC power supply. Connect the

"DC power GND pin" on the controller to the ground of the DC power supply.

Next, power on the controller.

After a couple of seconds, logging will appear in the lower display of the ECClite (lines of blue text).

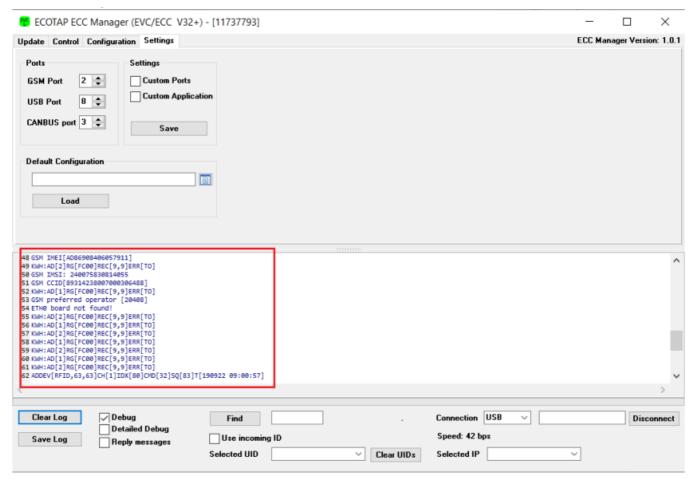


Figure 6.7 – Communication with the controller on similar software ECCManager (heavy version).

If you don't see blue text, remove power from the module, wait 10 seconds, and turn the power back on. Now the blue text should still become visible.

Firmware Update

This section describes how to update the controller's firmware via ECClite.

It is important that, during the update process, the USB to TTL cable remains connected to the PC and/or controller and that the controller is continuously powered-on (provided by the 12V DC supply)!

Pre-requisites:

A.Download the ".bin" file and save it to an easily retrievable place on the

B.Make sure there is communication with the module, see chapter 6 (blue log text).

Only continue when the pre-requisites are met.

1. Open ECClite Click the "Update" tab and then "Open Firmware file".



Figure 7.1 – Open firmware file (picture is from the heavy program but looks the same on the portable version 'ECClite').

- 2. Look-up the .bin file and open
- 3. Check that the software version name matches the name of the .bin file, as now displayed in ECClite (see image below). In this example, the module will be updated to the V32R16 firmware.

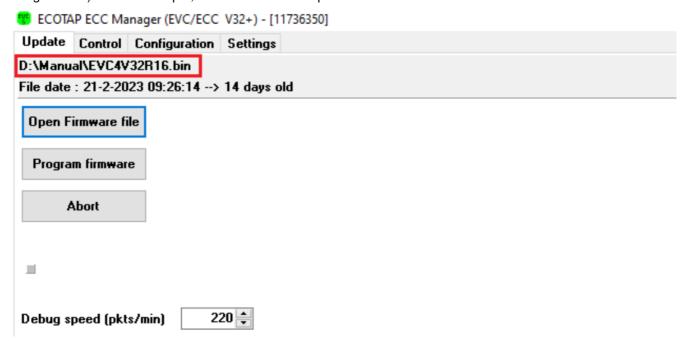


Figure 7.2 – Check the name of the opened bin file.

4. Click on "Program firmware".

Now software info (in green) will appear in the logging. Also, a progress bar at the bottom of ECClite will start running. This indicates how far the update has progressed. Wait for it to fill up.

118 Software info: HW[420] size[393956] CRC[8 119 Software info: VERSION:[25587] SIZE[A:393 120 Snd uid[0] cmd[cmd_GETVERSION_REQ[100]]se 121 Version: 32HW20, type:18 122 14:47:32:RXpkt chan[0]cmd[100]uid[0]sq[61 123 14:47:32:Chk erase 0-80000 124 125 14:47:33:Chk erase END 126 14:47:33:SL[2023-03-07;14:47:33;FW Update	956, B:65956] CRC[A:808A, B: 0] q[613]len[0]tobytes[13]Data[] 3]	
Clear Log Debug Detailed Debug Save Log Reply messages	Find Use incoming ID Selected UID	Connection USB Speed: 7561 bps Selected IP

Figure 7.3 – Firmware update in progress.

When the progress bar is completed, green text is displayed again followed by a piece of red text. This is

internal info of the module, characterized by 'copy flash' and 'erase' remarks in the logging.

Figure 7.4 - Firmware update is complete.

5. Verify the controller's firmware

It can be found in the application's startup information (blue text), after about 20 lines. See image below (based on an EVC 4.31 controller).

```
142 NO NEW FIRMWARE FOUND
143 FLASH ID 1F 47 1 0
144 Checking Firmware signature (size:602E4, CRC:808A)
145 PRGCODE CRC VALID 808A, 808A
146 Starting APPLICATION CODE
147 1970-01-01
148 00:00:00:Syslog init [3] 0,553,553
149 00:00:00:==== BOOTLOADER INFO =====
150 00:00:00:==== END INFO =====
151 00:00:01:LPCID [1700D01A95C81420611EB3F2F50020C4] FLASHID [1F470100]
152 00:00:01:LD CFG():10, 728(300-1028), 3E34002D=3E34002D
153 00:00:01:LD INT_CFG():160, B2AE7166=B2AE7166 (end:298)
154 14:52:20:Protocol [CH][TYPE]:[1:GSM][0:LMS]
155 14:52:20:PGrid[0:STATION CTRL]MIN.I[6]STATION[23]INSTALLATION[0]SUPERVISOR[0]
156 14:52:20:APN:[m2mservices.com],[],[]
157 14:52:20:SMS SERVER:[]
158 14:52:20:WS PING:[180s]
159 14:52:20:OCPP ID [11736350]
160 14:52:20:Model Name [EVC4.31]
161 14:52:20:Vendor Name [Ecotap]
162 14:52:20:Chargepoint serial [11736350]
163 14:52:20:DEST:[/#SN#],[ws.evc-net.com:80]
164 14:52:20:OPTIONS: APP[268470348], CH[18,18]
165 14:52:20:OUT1/2 CFG:[1,2]
166 14:52:20:RELAY2 CFG:[0,0]
167 14:52:20:PHASE ORDER (L0=off) [L1L2L3][L1L2L3]
168 14:52:20:ENCRYPT KEY: [F207F374DA9BAB816AC655AB5E5DAA92]
169 14:52:20:Save Json CFG to FLASH
170 14:52:20:search_json(key):tag not found [0-0][0][0]
171 14:52:20:Chk erase 90000-91946
172 X90000X91000
173 14:52:20:Chk erase END
174 14:52:20:Saved 6470 bytes of Json CFG to FLASH crc:78DC
175 14:52:20:HW4.xFW32R16
176 14:52:20:MODULES:[OCPP, ETH]
177 14:52:20:Chk erase 7F000-7FFA5
```

Figure 7.5 – Check that the controller boots with the correct firmware.

During boot of the application, the V32R16 is shown in the logging; it has been successfully installed.

It is important that, during the update process, the USB to TTL cable remains connected to the PC and/or controller and that the controller is continuously powered-on (provided by the 12V DC

supply).

Load and Send Configuration to the Module.

A configuration that is incorrect or incorrectly set, can permanently damage the controller and Ecotap cannot be held responsible for this. When in doubt, always contact Ecotap up front.

Download the factory standard .json file provided by Ecotap, for the exact station model you have at hand. Save it somewhere on the PC, where the file can be found easily. As an example in this manual, we will use "test.json".

Again, only use the <u>factory standard .json</u> file provided by Ecotap specifically for <u>that</u> station model!

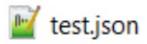


Figure 8.1 – .json file (provided by Ecotap)

(The icon of the .json file may look different)

In ECClite, go to the **Settings** tab, and then click the button

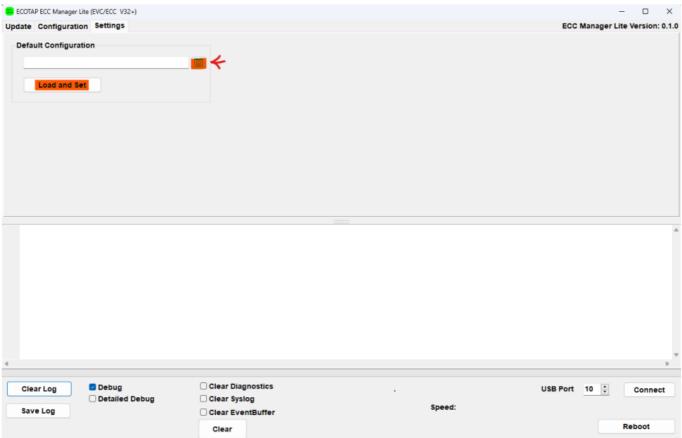


Figure 8.2 – Loading the configuration.

Now the explorer will open. On your PC, search for the location where the .json file was placed earlier.

Next, click on the file and click Open.

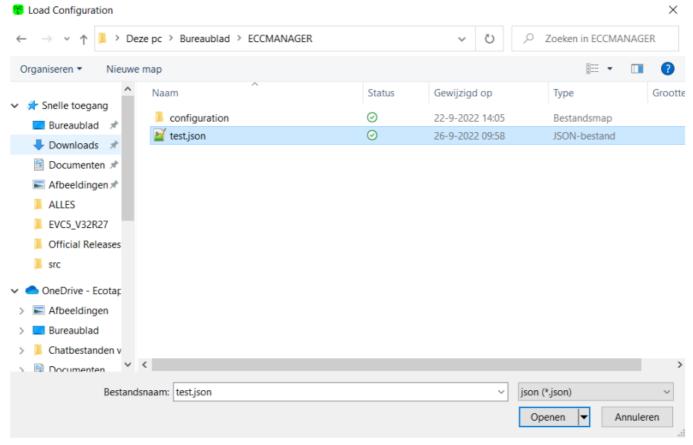


Figure 8.3 – Loading the .json file.

It will show a selection of parameters that Ecotap has specified for you within the Json file. For these selected configuration keys, you can adjust the values. Below an example is given with dummy values.

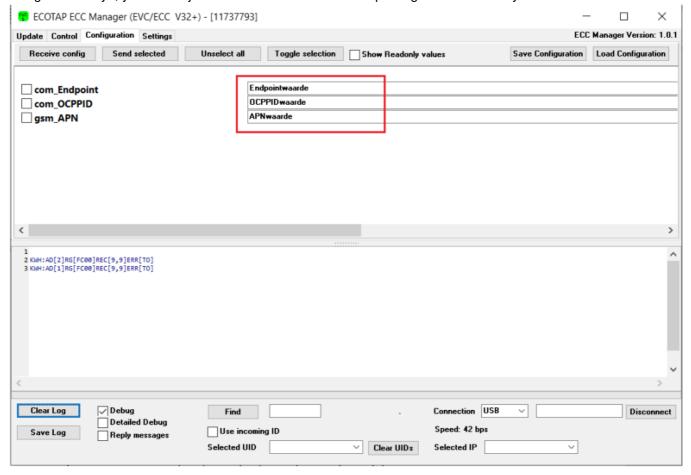


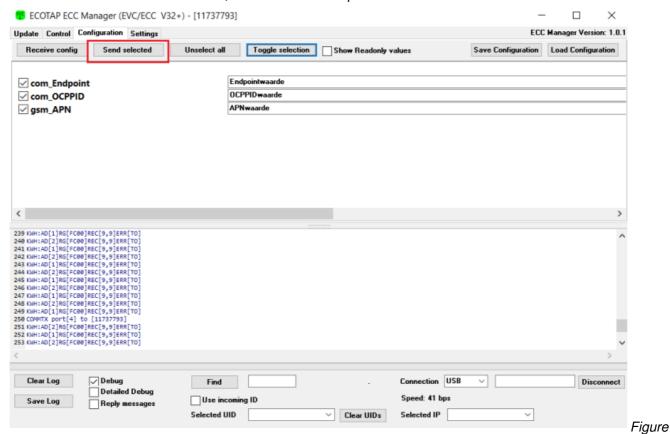
Figure 8.4 – Entering parameter values

Adjust the values of these parameters, if applicable. When in doubt, always contact Ecotap!

When the values are entered correctly, click the **Select All** button.

This selects the parameters, identified by the checked box to the left of the parameter names.

Then click the **Send selected** button, which sends these parameters with their values to the module.



8.6 - Sending parameters to controller.

Now check the logging again, for the specific code line "SV CFG()". This indicates that the configuration change has successfully been accepted.

```
200 Snd uid[0] cmd[JSON_COMMAND_REQ[31]]seq[147]len[80]tobytes[92 201 JSON Data received OK [22] 202 {"status":"Accepted"} 203 12:32:00:cmd_JSON_COMMAND [ChangeConfiguration][2][80] 204 Send 1 Cfg Items OK 205 12:32:01:KWH:AD[1]RG[FC00]REC[9,9]ERR[TO] 206 12:32:03:KWH:AD[2]RG[FC00]REC[9,9]ERR[TO] 207 12:32:05:KWH:AD[1]RG[FC00]REC[9,9]ERR[TO] 208 12:32:05:KWH:AD[1]RG[PC00]REC[9,9]ERR[TO] 208 12:32:05:KWH:AD[1]RG[PC00]REC[9,9]ERR[TO] 208 12:32:XWH:AD[1]RG[PC00]REC[9,9]ERR[TO] 208 12:32:XWH:AD[1]RG[PC00]REC[9,9]ERR[TO] 208 12
```

Figure 8.7 – SV CFG(): message to verify the configuration changes.

Next, to validate if the configuration has changed. **Reboot** the controller. Wait a couple of seconds, then proceed to **Select all**, again and **Receive config**.

If the parameters are set correctly, the correct values will be read out of the controller module.

Under chapter 11 you will find a dictionary of parameters available for you to modify based on your

chargers differing installation situations. Any other parameters that need to be changed should be done remotely from the connected OCPP Back-Office platform.

Troubleshooting

Should any problems arise while following the manual, a possible solution to fix the problem can be found in this section.

'Windows protected your PC' message.

It is possible that you might end up with this screen when trying to open ECClite software. This is a message from Microsoft Defender to protect your computer from malicious software. In this case the software is not malicious but unknown to Microsoft Defender.

To go further with this, click on **More info**.



Figure 7.1 – Microsoft Defender window.

This will show you more info about the application that you want to run. Because we know this software is not malicious you can click on the **Run anyway** button. After this, the application will start as expected.

JSON Configuration OCPP Dictionary

ECClite supports JSON Get and Set configuration. The configuration items consist of OCPP parameters and Ecotap proprietary parameters and can be set via OCPP (Open Charge Point Protocol). The OCPP parameters can be found in the appropriate OCPP standard. Below you will find Ecotap's

implementation of these parameters.

Mind that in the input value of these parameters, if you have a comma ", ". That means that after that comma will

be the next input value. So, with the $chg_RatedCurrent = [16,16]$. That means left channel is on 16 amps and the right channel is on 16 amps as well. Keep that in mind.

Configuration Key	R/W	Description
authorizationKey	WO	Here the authorization for a secure WebSocket must be entered. The key can o nly be written to and cannot be read out for security reasons. The option 'useTL S' must be set to use the key. The firmware uses Basic Authentication for HTTPS connections and hence the key must be entered as follows: Format: <username>:<password> <username> Username as known by the Central System<ppsysord> Password as known by the Central System Example Authorization Key: ECOTAP-1802500:9N8gGyS8Un7g4IY9dRICK</ppsysord></username></password></username>
chg_Debug	RW	Set debug logging options. (CSL)See <u>Table 1: Debug options and levels</u> for the allowed options and their levels. The value of an option must be entered as a bitmask where each bit represents a debug level. The following levels are implemented:0 = Off1 = Level 12 = Level 24 = Level 38 = Level 416 = Level 5 To enable multiple levels add them together e.g.: to enable Level 1 and Level 3 enter the value 5 = 1 +4 Example of a debug configuration: warn=1,error=1,date=1,syslog=0,gsm=1,events=1,com=0,ocpp=0,eth=0,grid=0,ctrl=3,general=3, sensors=0,fw=0,modbus=0,canbus=0,sys=0
chg_KWH3		Utility Energy meter configuration for channel 1, channel 2 and the utility meter (CSL) Format: <type>,<address>,<speed>,<parity>,<stop-bits> where<type> Energy meter typeSee Fout! Verwijzingsbron niet gevonden.<address> Modbus address in case of a Modbus meter<speed> Modbus meter: BaudratePulse meter: Number of pulses per kWh<parity> (N)one, (E) ven, (O)dd (Only for Modbus meters)</parity></speed></address></type></stop-bits></parity></speed></address></type>

		charger and will normally be the same as the MCD for this channel. The current delivered to the EV will never be higher than this value. Example for a standard charger:16,16
chg_StationMaxCurre nt	RW	The maximum current that a charger may consume in total per phase for all phases in amps. The value of this setting may not exceed the maximum current allowed by the wiring of the charger model. However, when the connection to the utility grid has a fuse with a smaller rating, the value of this rating must be used. This often happens for public chargers which can carry up to 32A but are fused with 25A. Example for a public charger fused with 25A:25
com_Endpoint	RW	Endpoint for the central system In the definition of the endpoint the user may define two variables:#SN# Replaced by the serial number of the controller module #OSN# Replaced b y the OCPP ID of the controller module Example:ws.evc.net:80/#SN#
com_OCPPID	RW	OCPP Identification ID (Maximum length = 25 characters) When the ID is changed the charger will restart after 60 seconds. Example: Ecotap TestID
com_ProtCh	RW	Communication channel for the Central System Example for a standard charger, connection via the modem: GSMExample for a standard charger where Ethernet interface is used:ETH
com_ProtType	RW	Communication protocol for the Central System See <u>Table 2: Supported communication</u> Example for a standard charger:OCPP1.6J
eth_cfg	RW	Ethernet Interface configuration (CSL) Format: type= <type>,ip=<ip>, netmask=<netmask>,dns=<dns>,gw=<gw> where e <type> IP address type Enter 'static' or 'dhcp'<ip> I PV4 address of the EVC4<netmask> IPV4 netmask<dns> IPV4 address of the domain name server<gw> IPV4 address of the gateway Example:Type=dhcp,ip=0.0.0.0,netmask=0.0.0.0,dns=0.0.0.0,gw=0.0.0.0</gw></dns></netmask></ip></type></gw></dns></netmask></ip></type>
grid_InstallationMaxc urrent	RW	The maximum current allowed for a master/slave grid (per phase for all phases) in amps. Range 09999This option must be set on a master to the value for th at master/slave grid. This option must be set on a supervisor to the current avail able for all grids. Example:250
grid_InstallationSave Current	RW	The maximum current allowed for a master/slave grid (per phase for all phases) in amps when the master loses communication with the supervisor.Range 09 999Must be set on a master and is only used there <i>Example:</i> 100
grid_Role	RW	Operation mode in a local power gridSee <u>Table 3: Grid roles</u> for the allowed ro les. Example for a standard charger:Station_ctrl
gsm_APN	RW	GSM APN Information

		Format: <apn name="">,<apn user="">,<apn password=""> The name is limited to 39 characters while the user and password are limited to 24 characters. Example for a standard charger:m2mservices,,</apn></apn></apn>
gsm_Oper	RW	GSM Preferred Operator for the mobile network Set to 0 (default) if automatic selection is preferred otherwise it should be forma tted as LLLXX, where LLL is the country code and XX is the provider code.For t he Netherlands possible values are 20404 (Vodafone NL), 20408 (KPN NL), 20 416 9T-Mobile NL) Example for a standard charger:0
gsm_Options	RW	GSM options (CSL)0 = Disabled, 1 = Enabled The following options are allowed: Option DescriptionnoSmsChk If enabled allows all originating num bers to send SMS commandsIf disabled only the number set in parameter 'gsm _SMS' may send SMS commands.AutoAPN Only present to prevent error s with older configurations. Now obsolete. 3G4G Only present to prevent err ors with older configurations. Now obsolete. Example for standard grid:noSmsChk=0,AutoAPN=0,3G4G=0
gsm_SigQ	RO	GSM signal quality(099). Must be greater than 8 to have a valid GSM connection. A value of 99 means that no strength could be determined. Example for a standard charger:15

Chg_Debug Levels:

Option	Levels	Description
warn	1	Show warnings. Default set to level 1
error	1	Show errors. Default set to level 1
date	1	Show data and time before each line.
syslog	1	Log syslog entries
gsm	13	Log mobile communication
events	14	Log event system info
com	14	Log communication info
осрр	13	Log OCPP info
eth	13	Log ethernet info
grid	14	Log power grid info
ctrl	13	Log charger control
general	12	Log general events
sensors	12	Log sensors
fw	12	Log firmware update info
modbu s	12	Log Modbus info
canbus	13	Log CAN-bus info
sys	13	Log sys info

Table 1: Debug options and levels

Com_ProtType:

Option	Description
LMS	Proprietary LMS protocol. (Deprecated. Only still used for Master/Slave grids)
OCPP1.5J	OCPP Versie 1.5 JSON. (Deprecated)
OCPP1.6J	OCPP Versie 1.6 JSON.
Clear	Clear all events in the event buffer without changing the current protocol. Used to clear of d events before switching to a new protocol to prevent protocol errors on the Central System. Recommended to use when switching from LMS to OCPP and vice versa.

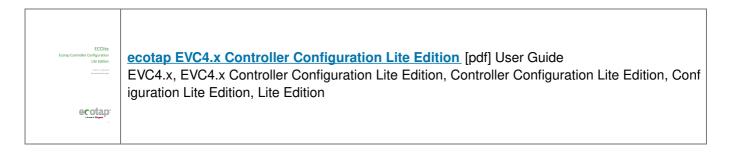
 Table 2: Supported communication protocols.

Grid_Role:

Option	Description
No_ctrl	The controller module disables the internal power manager
Station_ctrl	The controller module uses the internal power manager for the station only. The configuration key 'chg_StationMaxCurrent' will be used to limit the maximum power
Slave	The controller module will function as a slave that will connect to a master/supervisor.Th e configuration key 'chg_Station MaxCurrent' will be used to limit the maximum power
Master	The controller module uses the internal power manager for control of the power on the m aster and the connected slaves. The configuration key 'grid_InstallationMaxcurrent' defin es the total current for this master/slave grid

Table 3: Grid roles

Documents / Resources



References

- O devices.ecotap.com/registry/ocpp/NL*ECO*1000
- User Manual

Manuals+, Privacy Policy

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