Charge Point Tool

（eaton 定制版）使用说明

V0.2

版本信息

日期	版本号	修订说明	修订人
2023/01/07	V0.1	初稿	Jett
2023/02/27	V0.2	新增账号密码登入及恢复出厂密码功能	Jett

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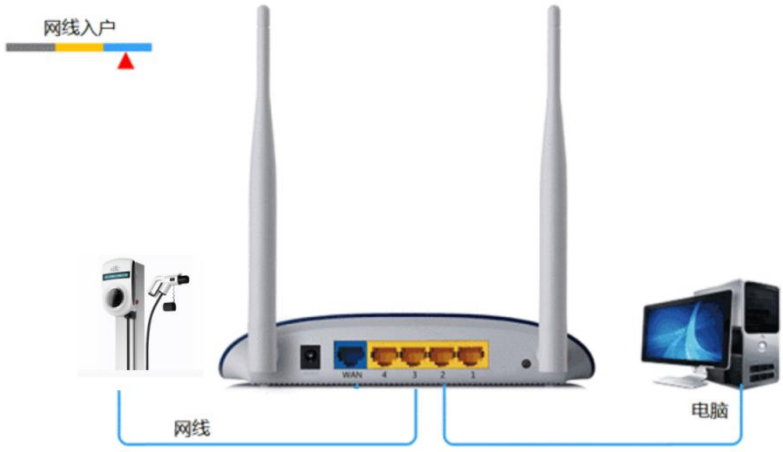
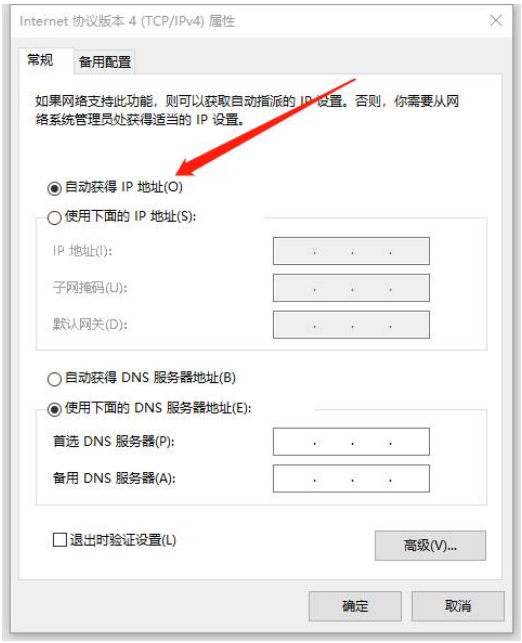
一、连接方式

1.1、局域网路由连接：

（1）、充电桩和 PC 连接到同一个路由器，确保在同一个局域网内。

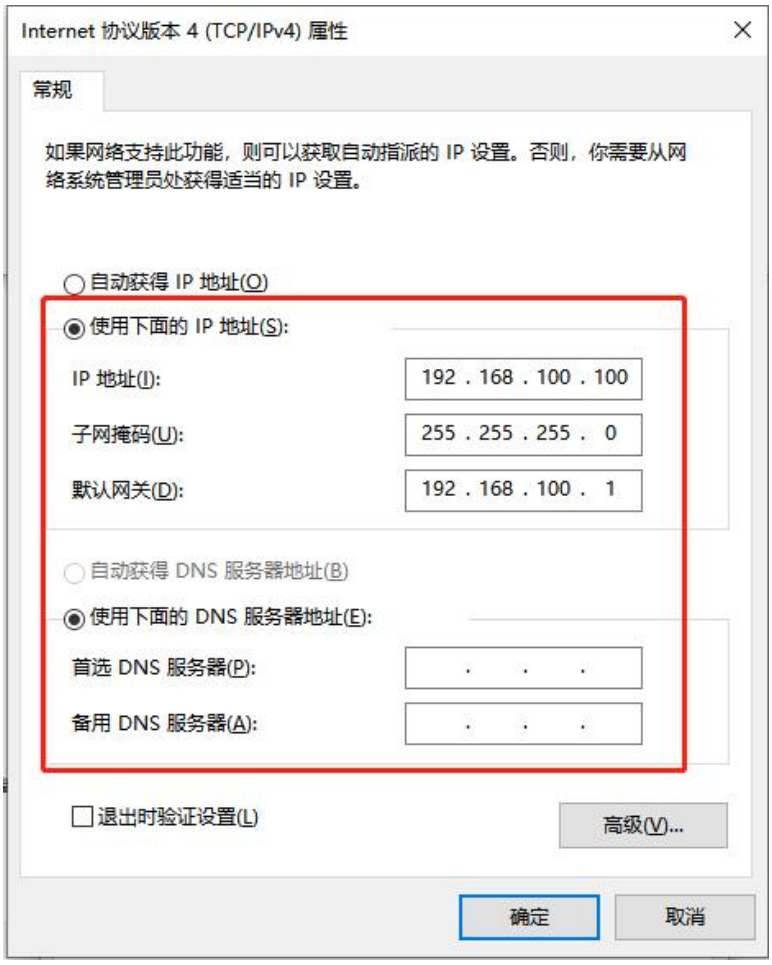


（2）、电脑 IP 地址设置为“自动获取 IP 地址”。



1.2、静态 IP 直连方式：

（1）、网线直接连接充电桩和电脑（wifi 共享以太网需关闭）；
（2）、将以太网 IP 设置如下地址；
（3）、确保防火墙关闭；
（4）、连接方式改变时需重启充电桩。



2.3、注意事项：

（1）、如果连接不上充电桩，可尝试关闭防火墙后重试。
（2）、关闭方式如下图示。



二、配置工具介绍

2.1、启动：

双击 Charge Point Tool.exe 即可启动。



2.2、界面布局：

（1）、菜单栏 Main 为主操作界面，分为功能区、主操作区和 LOG 区。

- 功能区：

connect/Disconnectd：连接充电桩/断开连接
Account：输入账号
Passowrd：输入密码
Set up：打开充电桩使用说明

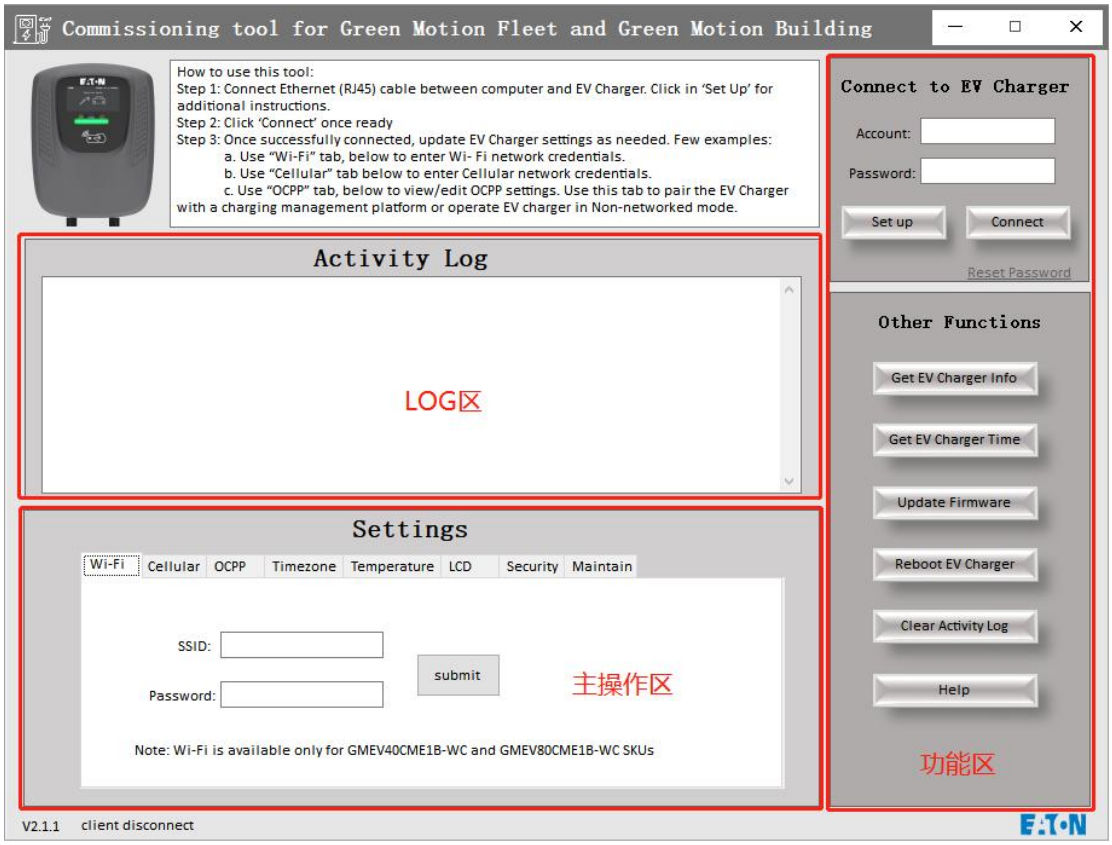
Get EV Charger Info：获取充电桩设备参数信息
Get EV Charger Time：获取充电桩时间
Update Firmware：OTA 升级
Reboot EV Charger：重启充电桩
Clear Activity Log：清除 LOG 区域
Help：帮助

- 主操作区：

连接上充电桩之后，可在相应功能栏进行参数和功能设置。

- LOG 区：

LOG 区可显示交互日志信息。



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三、功能区介绍

3.1、连接：

（1）、在连接方式设置完成的情况下（详见目录 一、连接方式），输入账号和密码（账号为 SN 号）后点“Connect”按钮可以与桩建立连接，连接成功后会返回桩端信息，如图 3.1.1。

“Authentication success!”表示账号认证成功；

“Authentication fail!”表示账号认证失败；

如需断开连接，直接点“Disconnect”即可。

（2）、如果是首次连接，会弹窗提示修改默认密码。

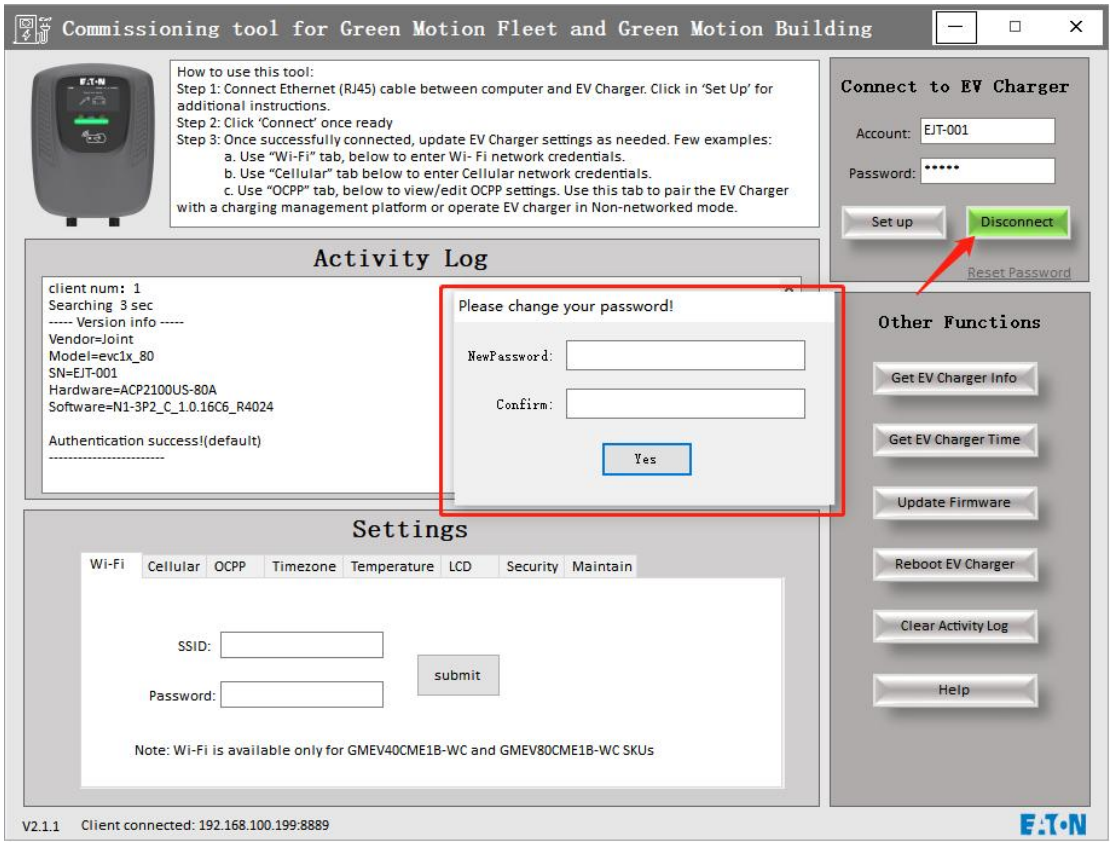


图 3.1.1

（3）、如果忘记密码，可点“Reset Password”进行密码重置，提示 15 分钟内切断电源重启可进行密码重置（恢复默认密码“eaton”），如图 3.1.2 所示。

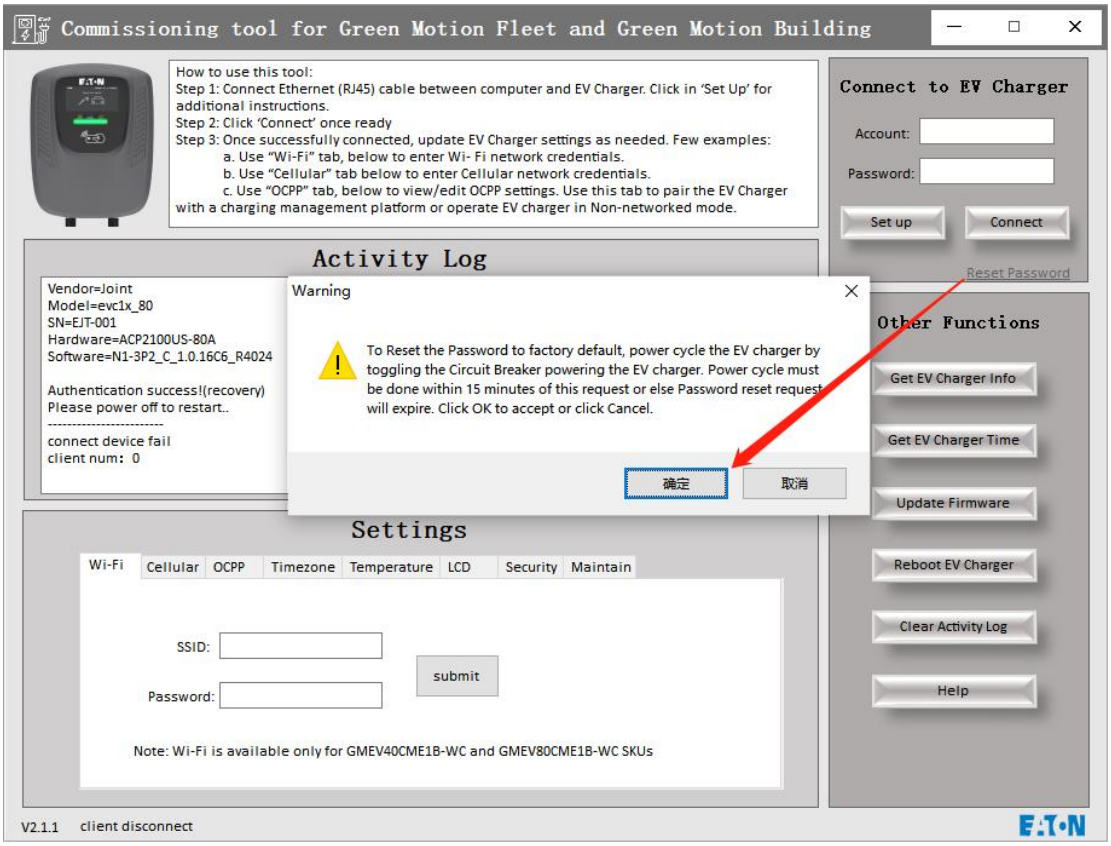


图 3.1.2

3.2、获取设备信息：

（1）、在连接成功的情况下，点“Get EV Charger Info”按钮可以获取设备的参数信息，如图 3.2.1。

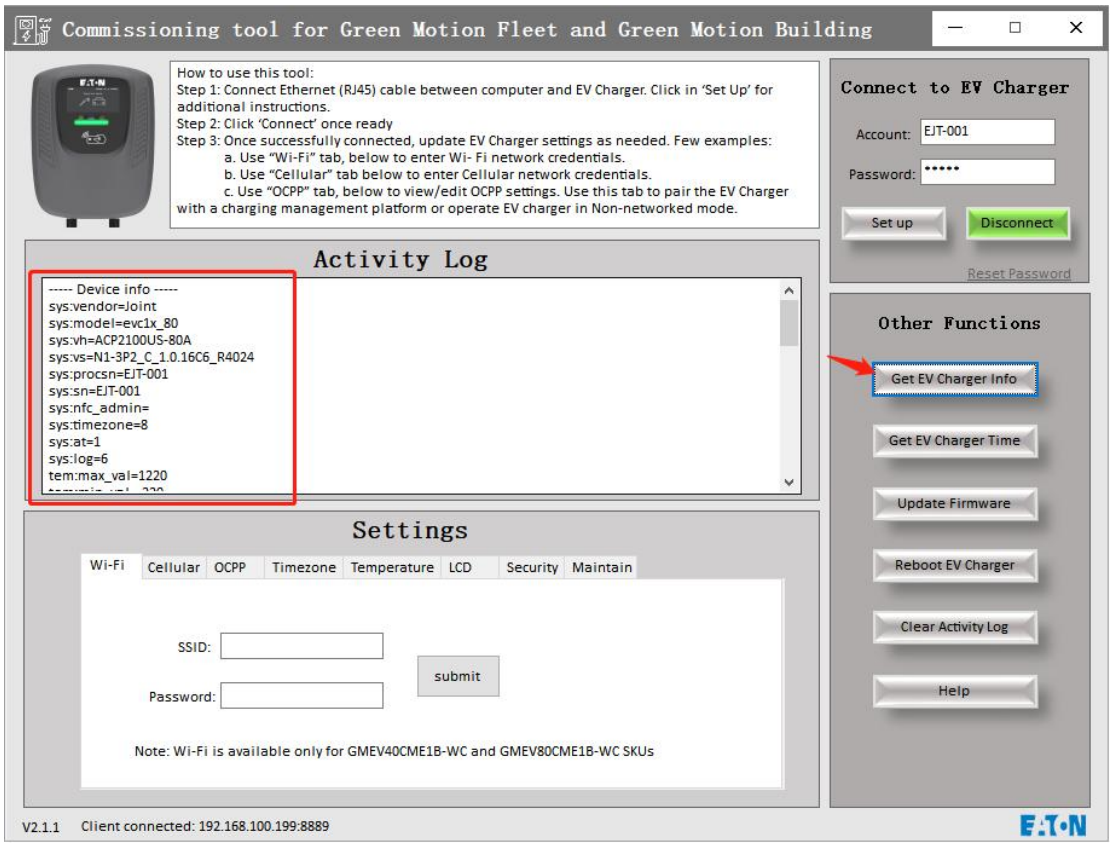


图 3.2.1

3.3、获取时间：

（1）、在连接成功的情况下，点“Get EV Charger Time”按钮可以获取设备的当前时间和时区值，如图 3.3.1。

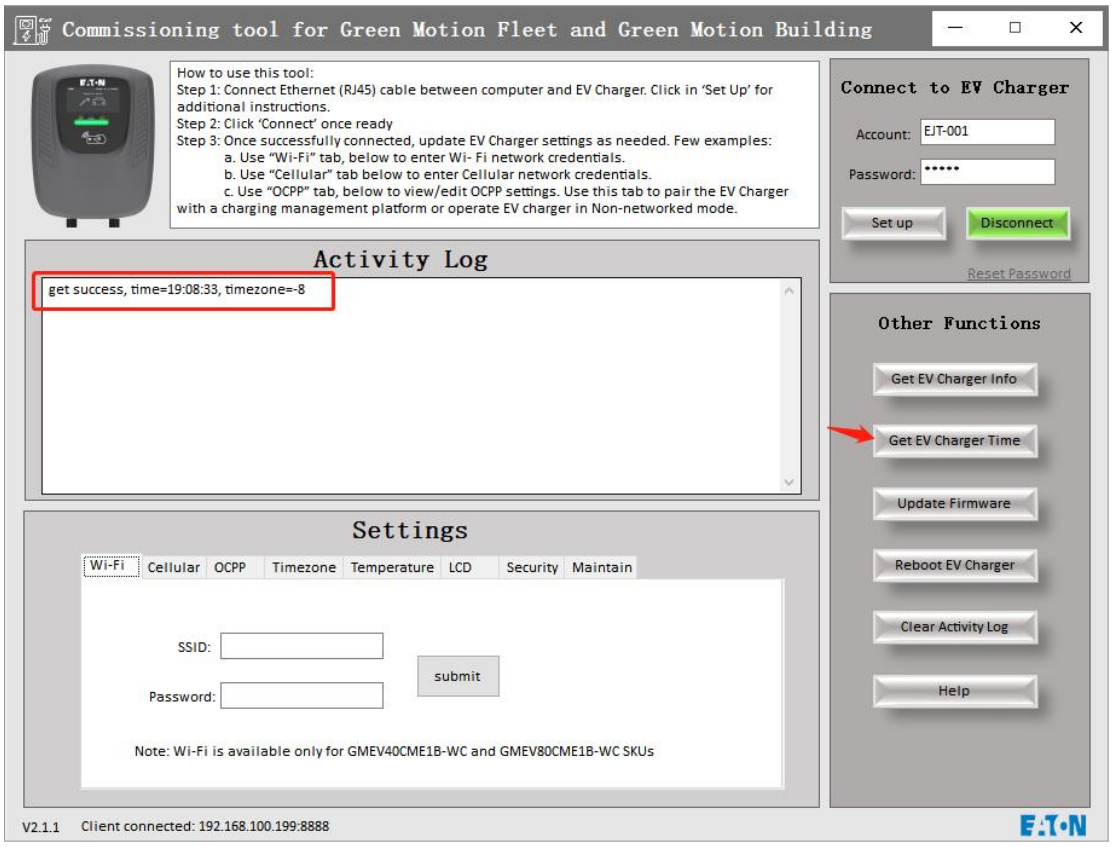


图 3.3.1

3.4、升级充电桩固件：

（1）、点击“Update Firmware”按钮，弹出路径选择对话框，选择“xx.rbl”的升级文件，点“打开”即可进行固件升级，如图 3.4.1。

（2）、固件升级成功后设备会重启，需重新进行连接操作。

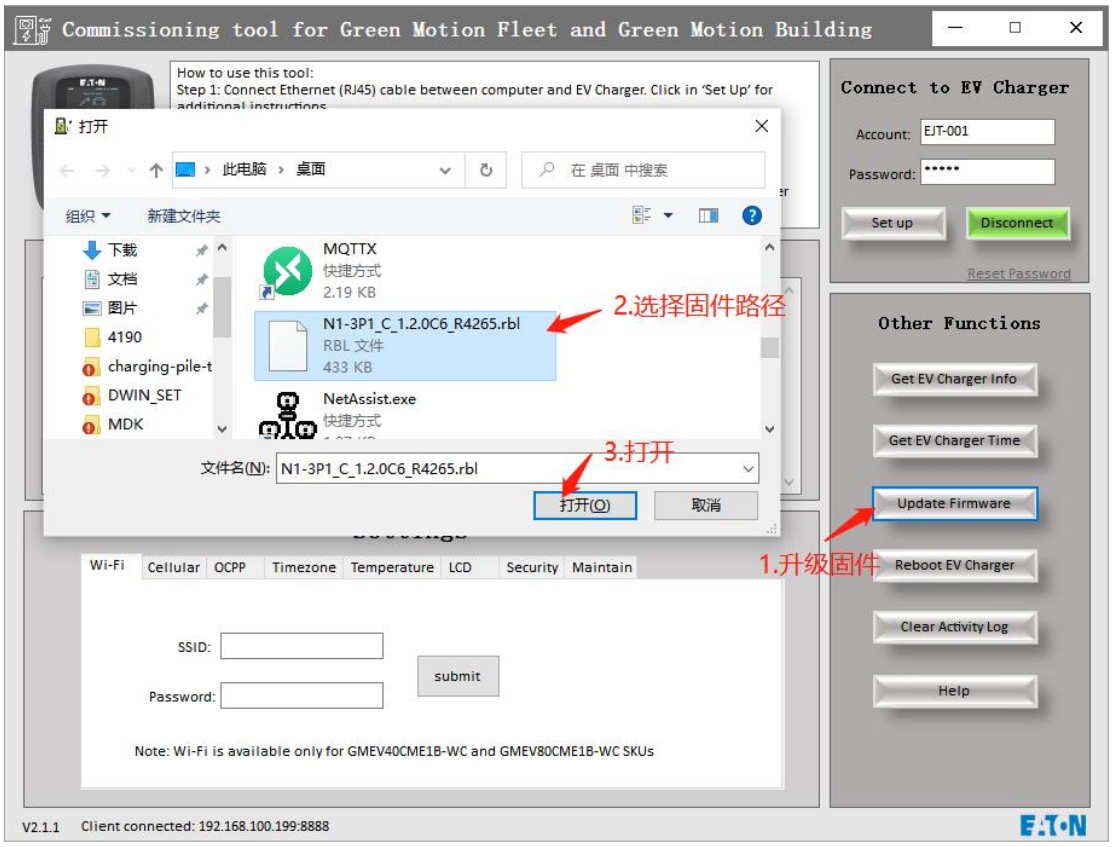
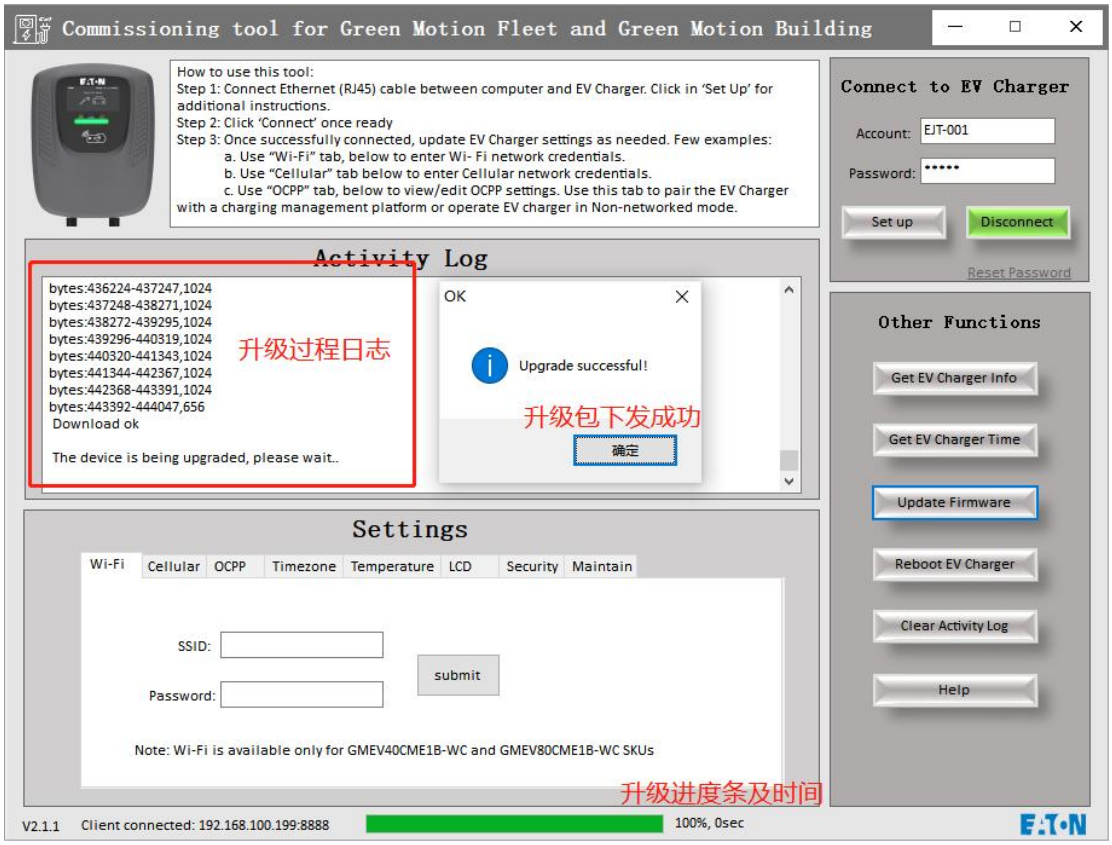

Commissioning tool for Green Motion Fleet and Green Motion Building
How to use this tool:
Step 1: Connect Ethernet (RJ45) cable between computer and EV Charger. Click in 'Set Up' for
打开
此电脑 › 桌面
在 桌面 中搜索
组织
新建文件夹
下载
文档
图片
4190
charging-pile-t
DWIN_SET
MDK
MQTTX
快捷方式
2.19 KB
N1-3P1_C_1.2.0C6_R4265.rbl
RBL 文件
433 KB
NetAssist.exe
快捷方式
2.选择固件路径
文件名(N): N1-3P1_C_1.2.0C6_R4265.rbl
3.打开
打开(O)
取消
Connect to EV Charger
Account: EJT-001
Password:
Set up
Disconnect
Reset Password
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
1.升级固件
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SSID:
Password:
submit
Note: Wi-Fi is available only for GMEV40CME1B-WC and GMEV80CME1B-WC SKUs
V2.1.1
Client connected: 192.168.100.199:8888

图 3.4.1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Step 2: Click 'Connect' once ready
Step 3: Once successfully connected, update EV Charger settings as needed. Few examples:
a. Use "Wi-Fi" tab, below to enter Wi- Fi network credentials.
b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Activity Log
bytes:436224-437247,1024
bytes:437248-438271,1024
bytes:438272-439295,1024
bytes:439296-440319,1024
bytes:440320-441343,1024
bytes:441344-442367,1024
bytes:442368-443391,1024
bytes:443392-444047,656
Download ok
The device is being upgraded, please wait..
升级过程日志
OK
Upgrade successful!
升级包下发成功
确定
Connect to EV Charger
Account: EJT-001
Password:
Set up
Disconnect
Reset Password
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SSID:
Password:
submit
Note: Wi-Fi is available only for GMEV40CME1B-WC and GMEV80CME1B-WC SKUs
升级进度条及时间
V2.1.1
Client connected: 192.168.100.199:8888
100%, 0sec

图 3.4.2

3.5、升级 RFID 固件：

（1）、点击“Update Firmware”按钮，弹出路径选择对话框，选择“xx.rbl”的升级文件，点“打开”即可进行 RFID 固件升级，如图 3.5.1。

（2）、RFID 固件包升级分为两个步骤。

第一步需等待固件下发成功，如图 3.5.2；

第二步需等待充电桩对刷卡板进行固件烧写完成，如图 3.5.3。

（3）、在 Maintain 栏输入“cc get rfid”指令可查看当前 RFID 模块的版本，用于查看是否升级成功，如图 3.5.4。

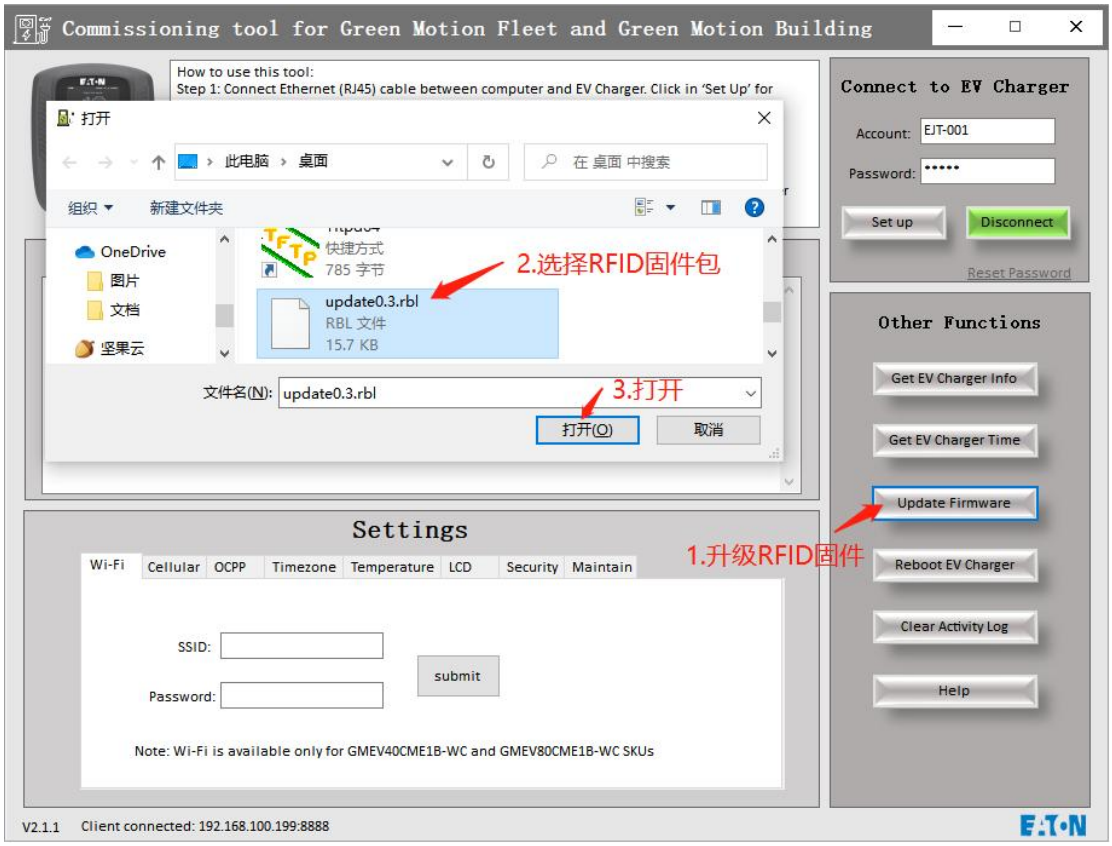
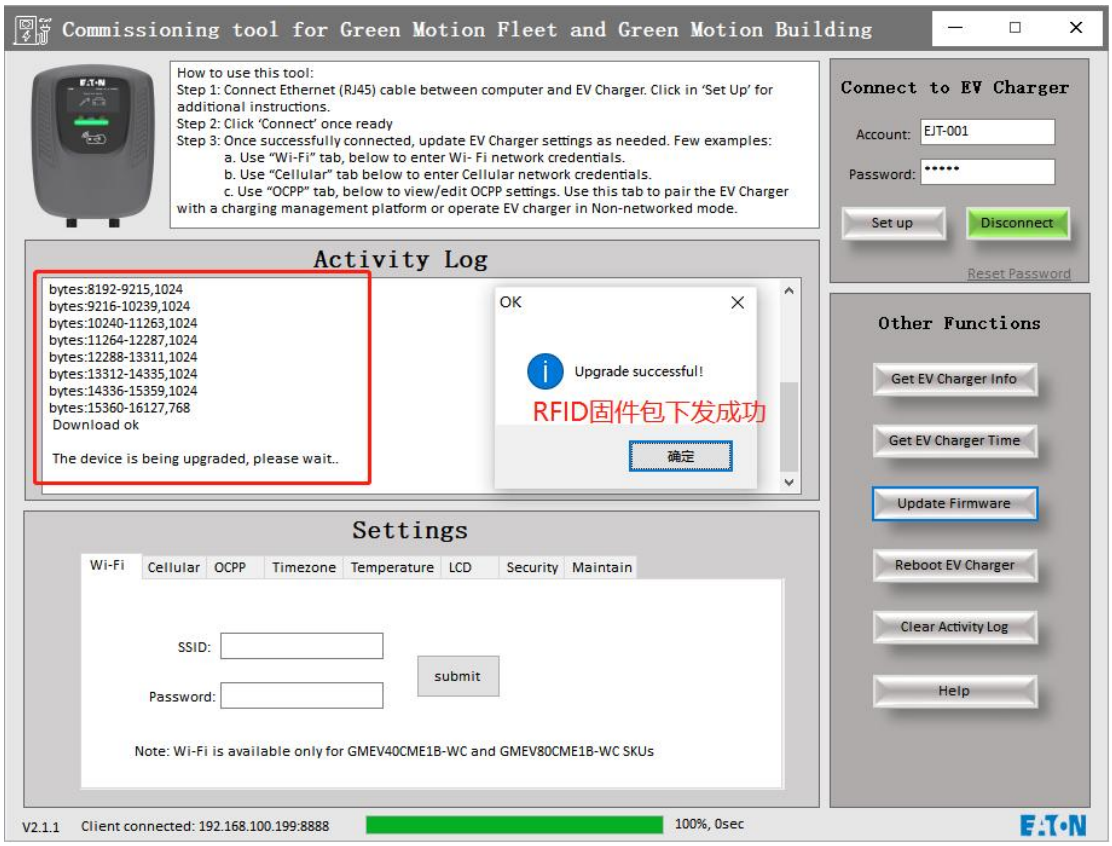


图 3.5.1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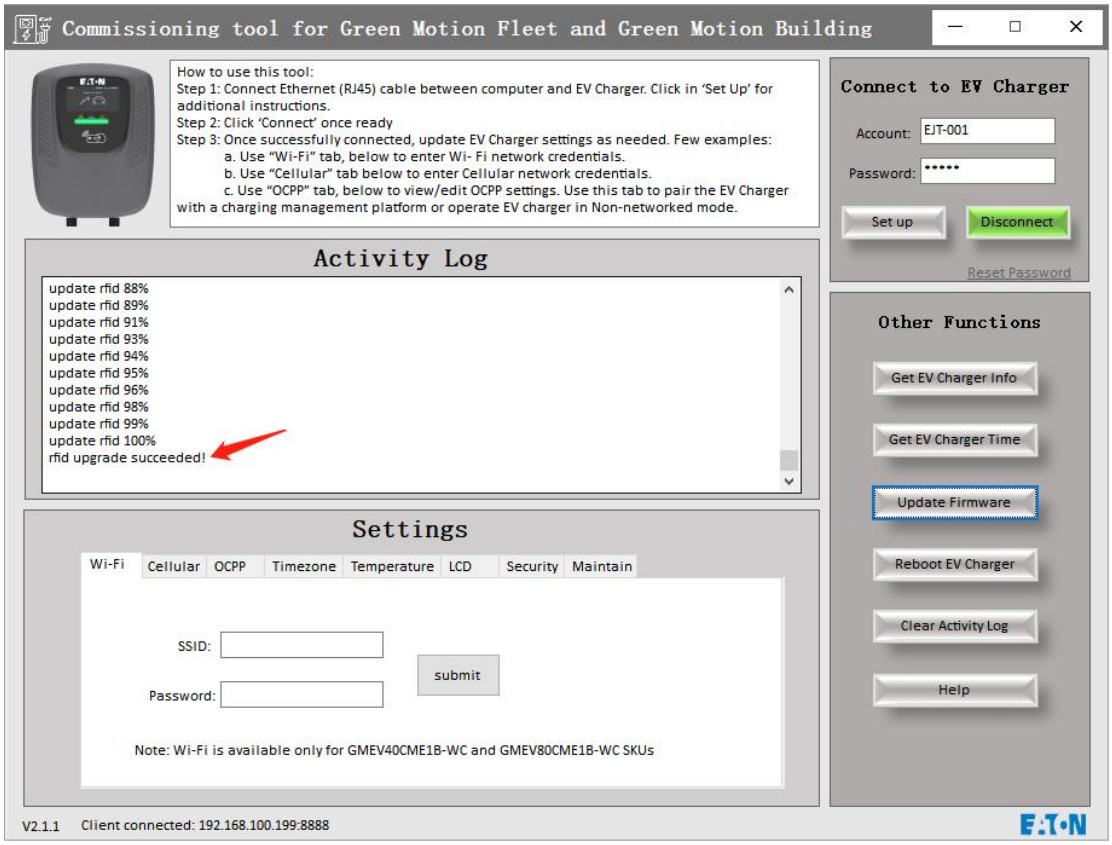
b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
bytes:8192-9215,1024
bytes:9216-10239,1024
bytes:10240-11263,1024
bytes:11264-12287,1024
bytes:12288-13311,1024
bytes:13312-14335,1024
bytes:14336-15359,1024
bytes:15360-16127,768
Download ok
The device is being upgraded, please wait..
OK
Upgrade successful!
RFID固件包下发成功
确定
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SSID:
Password:
submit
Note: Wi-Fi is available only for GMEV40CME1B-WC and GMEV80CME1B-WC SKUs
V2.1.1
Client connected: 192.168.100.199:8888
100%, 0sec

图 3.5.2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b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
update rfid 88%
update rfid 89%
update rfid 91%
update rfid 93%
update rfid 94%
update rfid 95%
update rfid 96%
update rfid 98%
update rfid 99%
update rfid 100%
rfid upgrade succeeded!
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SSID:
Password:
submit
Note: Wi-Fi is available only for GMEV40CME1B-WC and GMEV80CME1B-WC SKUs
V2.1.1
Client connected: 192.168.100.199:8888

图 3.5.3

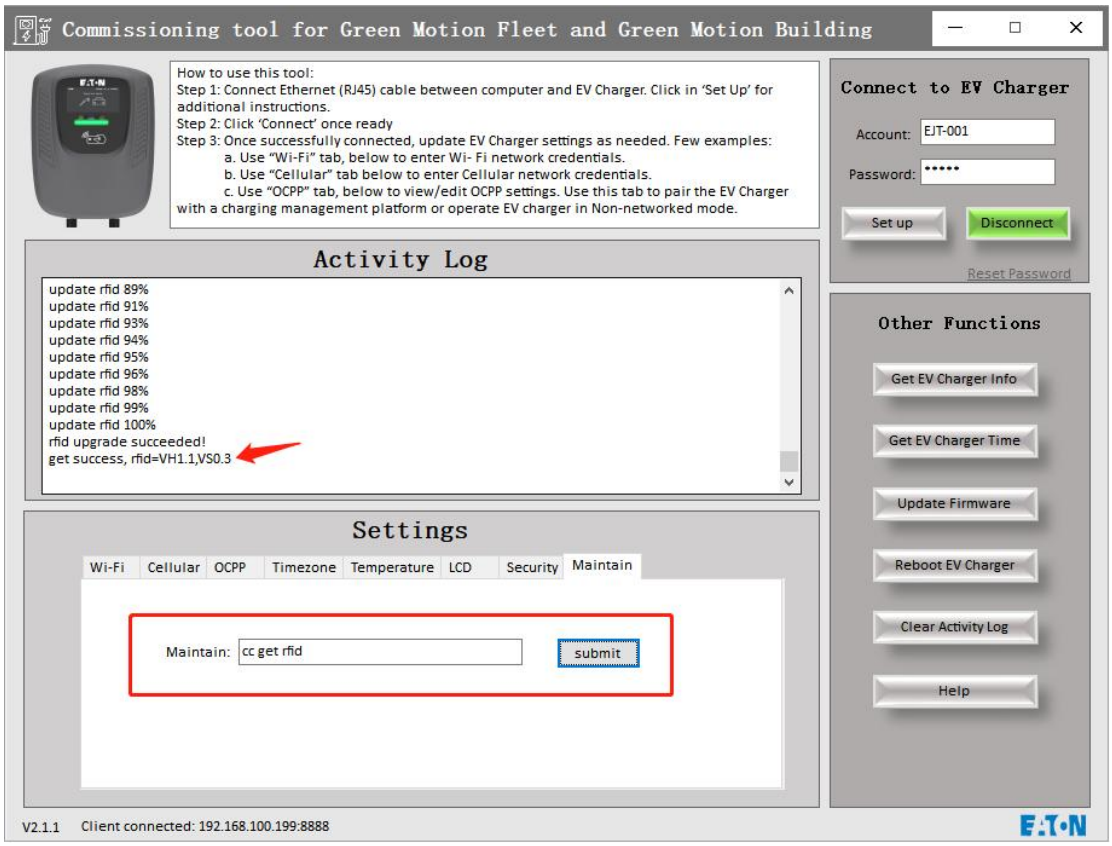

图 3.5.4

3.6、重启充电桩：

（1）、点击“Reboot EV Charger”按钮，弹出“是否确认重启”的弹窗，如图 3.6.1；选择“确定”后设备会进行重启，此时设备需要重新连接。

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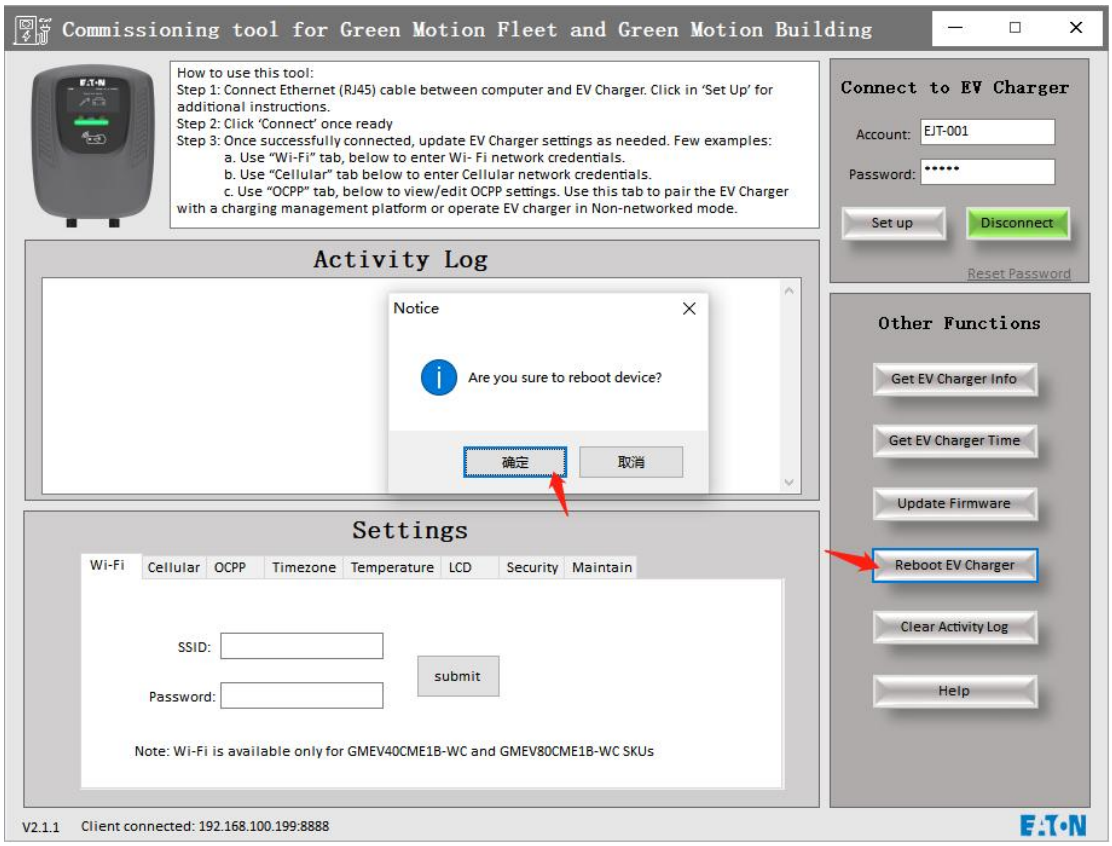
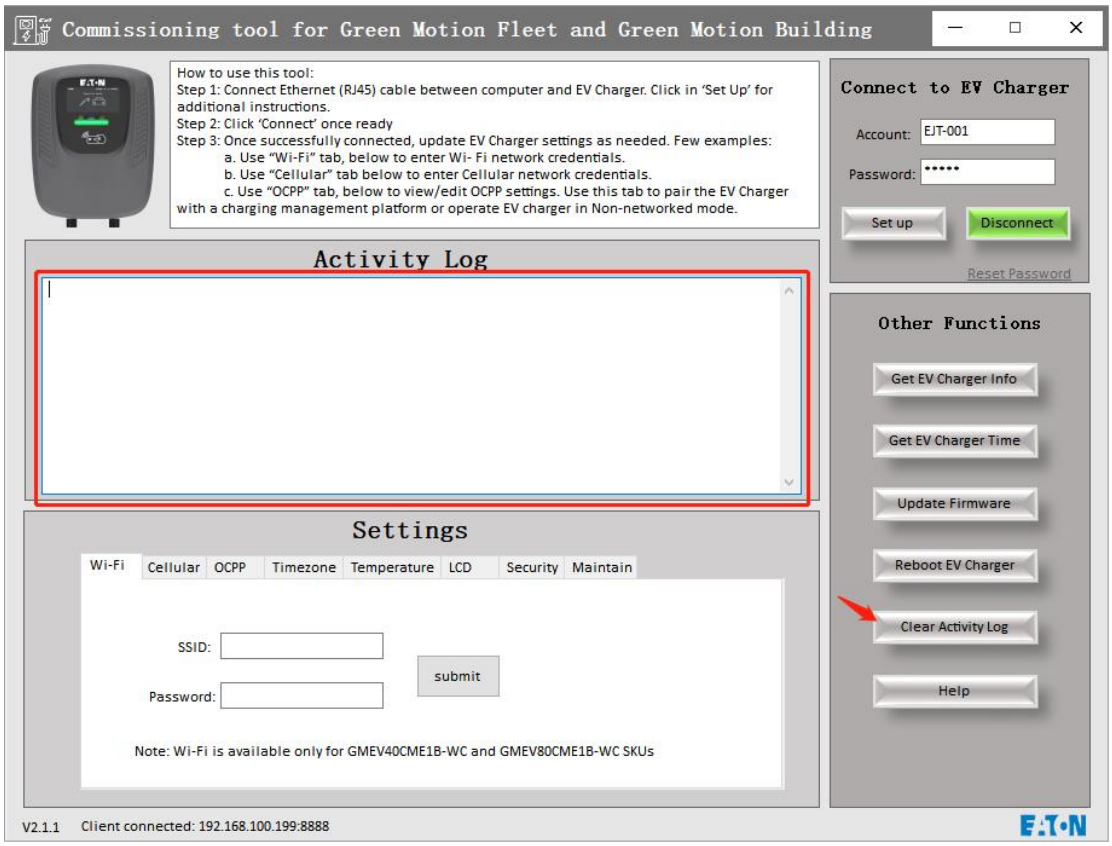


图 3.6.1

3.7、清屏：

（1）、点击“Clear Activity Log”按钮，只会清除 log 区的日志信息，不会对设备有任何影响，如图 3.7.1。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Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SSID:
Password:
submit
Note: Wi-Fi is available only for GMEV40CME1B-WC and GMEV80CME1B-WC SKUs
V2.1.1
Client connected: 192.168.100.199:8888

图 3.7.1

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四、主操作区介绍

4.1、配置 wifi 参数：

（1）、选择“wifi”菜单栏，填入 wifi 的账号和密码，点“submit”即可对 wifi 账户密码进行设置，log 区会提示“set success”和设置的值，如图 4.1.1。

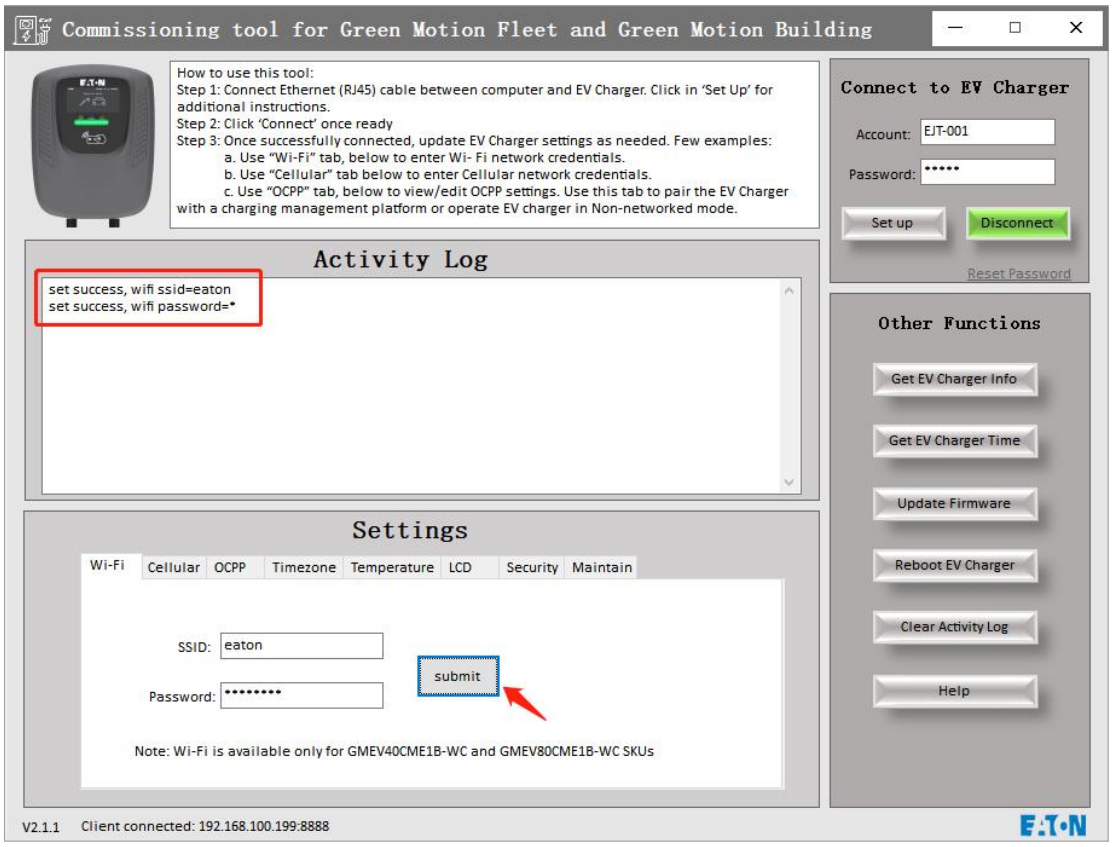


图 4.1.1

4.2、配置 Cellular 参数：

（1）、选择“Cellular”菜单栏，填入账户信息，点“submit”即可进行账户设置，log 区会提示“set success”和设置的值，如图 4.2.1。

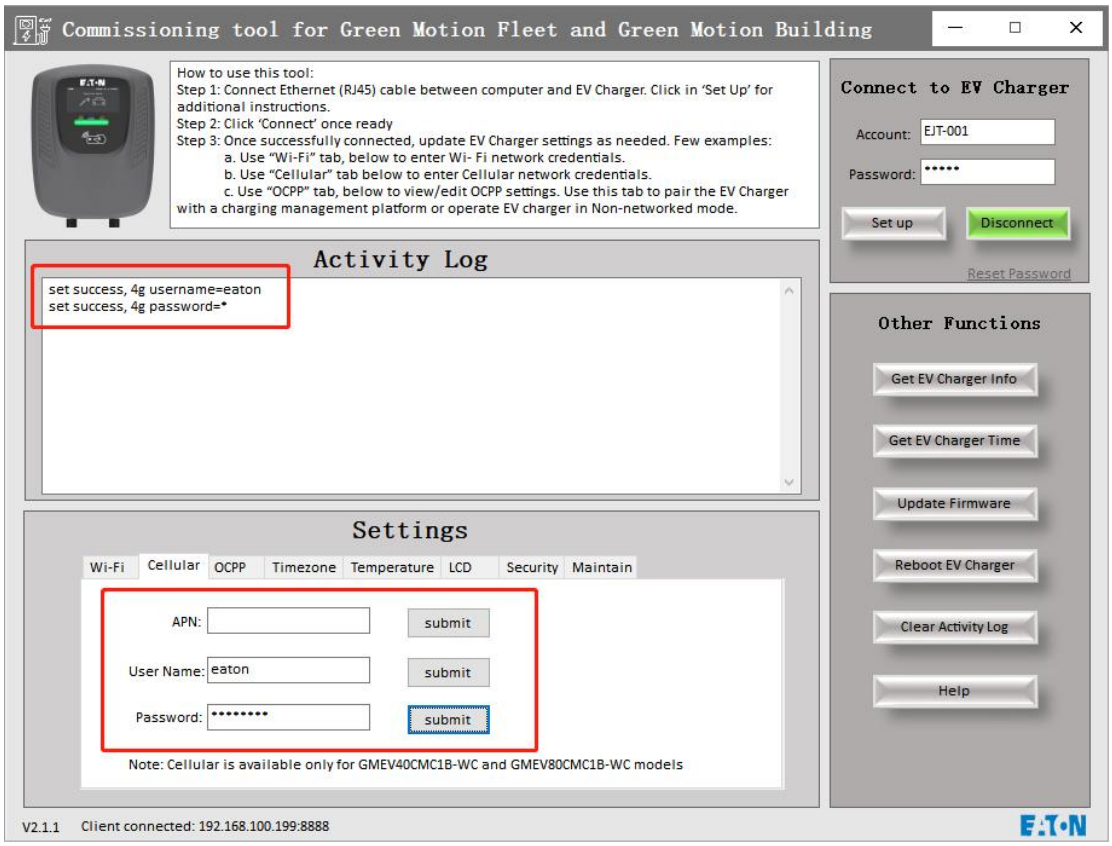


图 4.2.1

4.3、配置 OCPP 参数：

（1）、选择“OCPP”菜单栏，填入网络参数，点“submit”即可进行设置，log 区会提示“set success”和设置的值，如图 4.3.1。

OCPP server：为服务器 url 地址

AuthorizationKey：为授权秘钥

注：如输入 null 为清空。

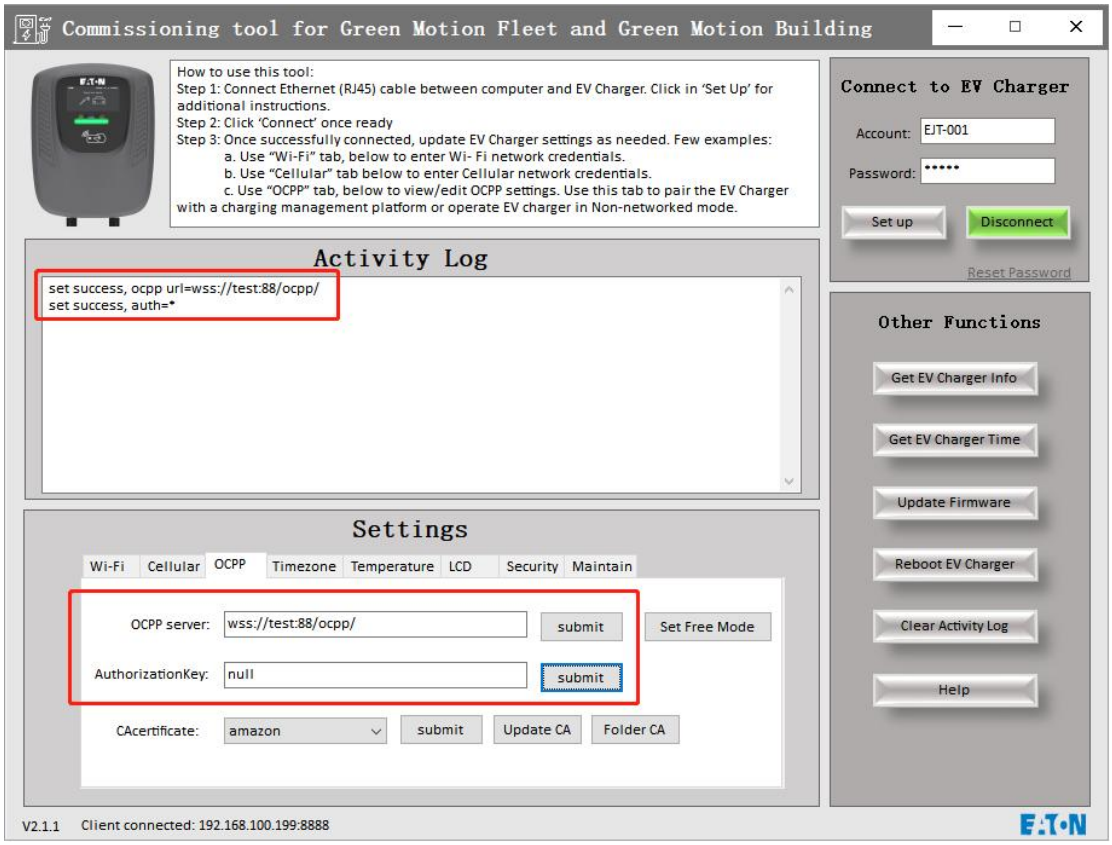


图 4.3.1

（2）、即插即充模式：点击“Set Free Mode”按钮即可将充电桩设为即插即充模式，如图4.3.2；

如需切换为 ocpp 模式，只需重复步骤（1）输入 url 地址后即可自动切换为 ocpp 模式。

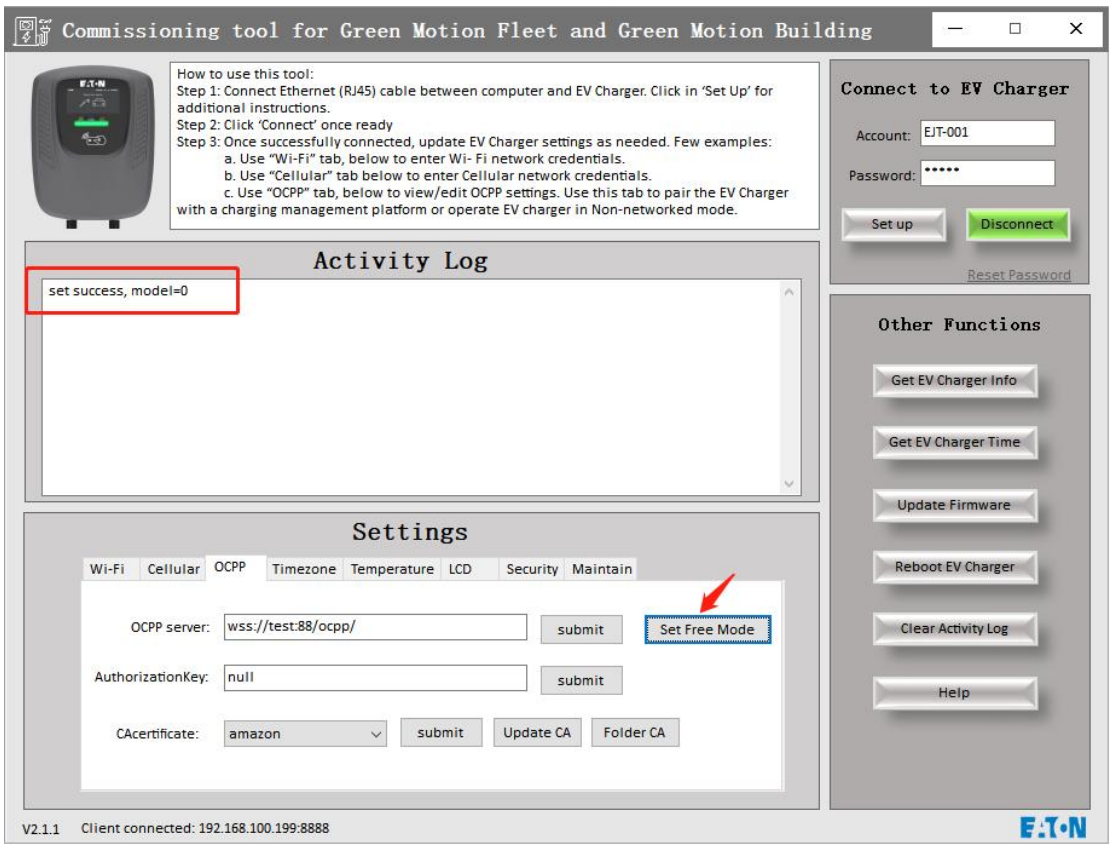


图 4.3.2

（3）、OCPP 证书更新有两种方式，“submit”按钮可发送选项框中默认的证书文件，如图 4.3.3；

“Update CA”按钮，可以选择外部新的证书文件（默认选项框中没有的）进行载入更新，如图 4.3.4。

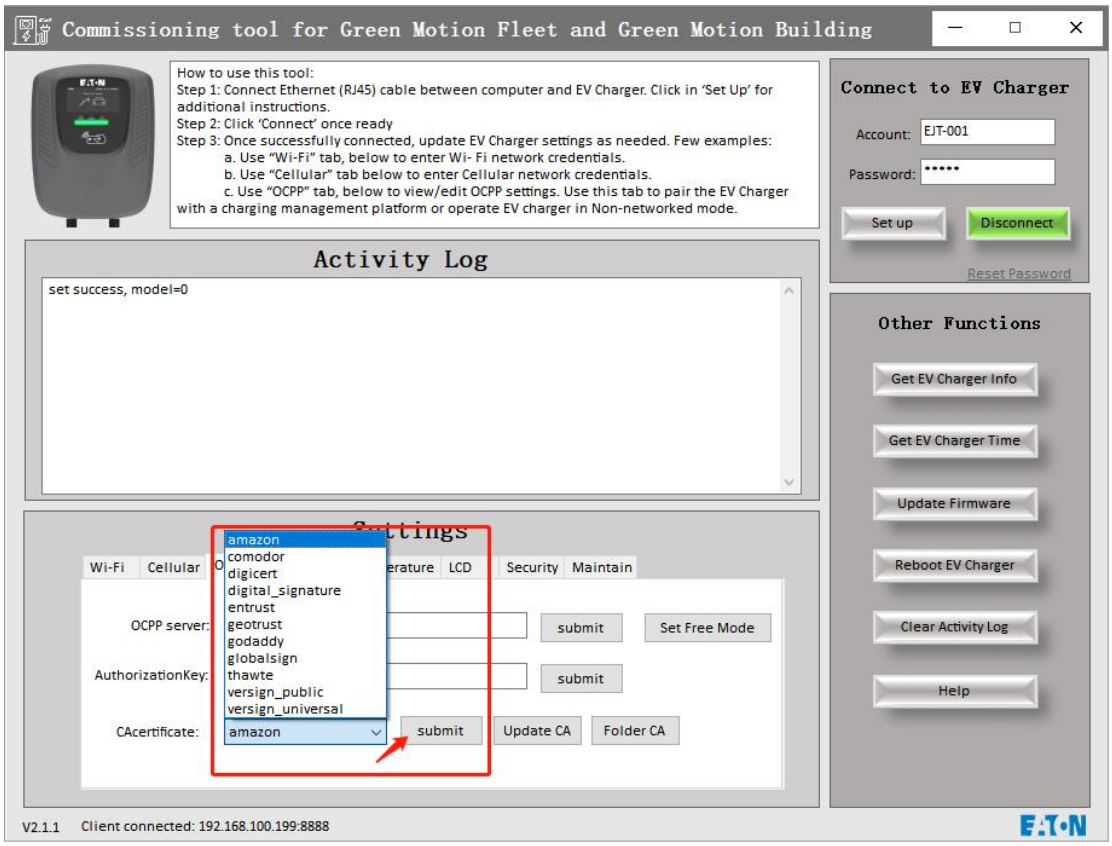
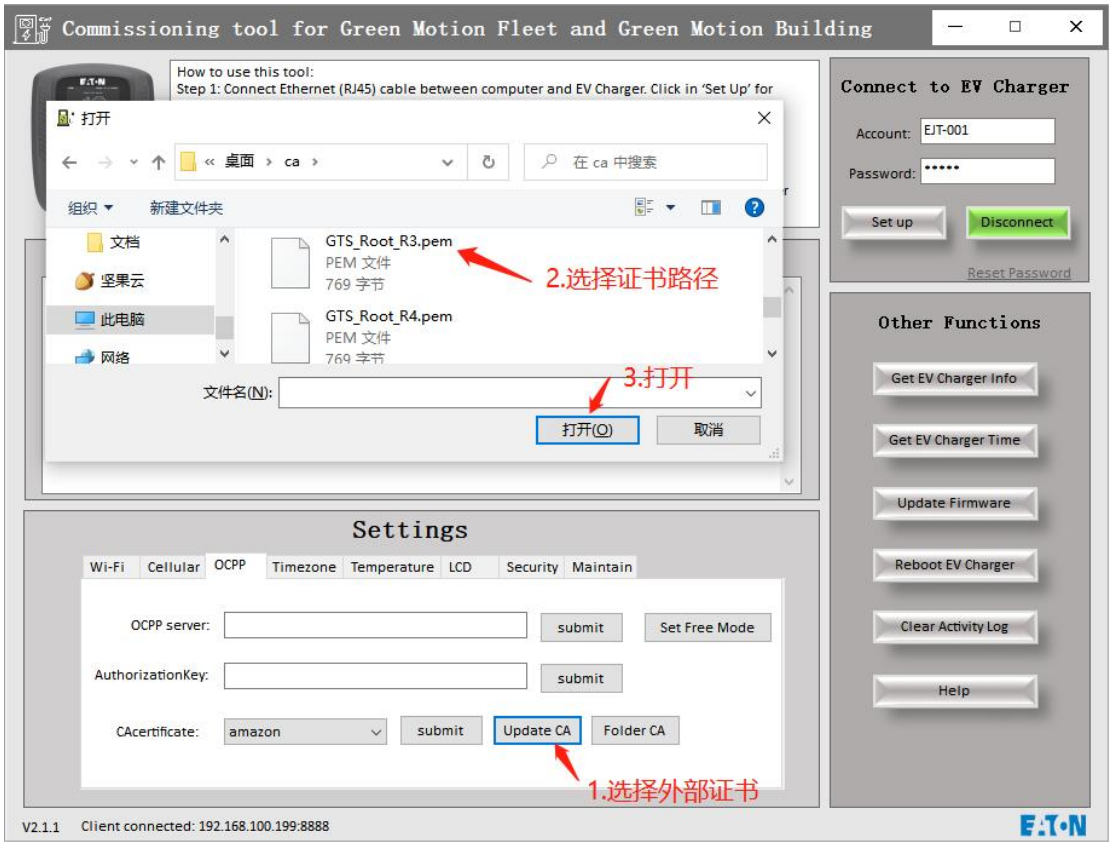


图 4.3.3

更新外部证书：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How to use this tool:
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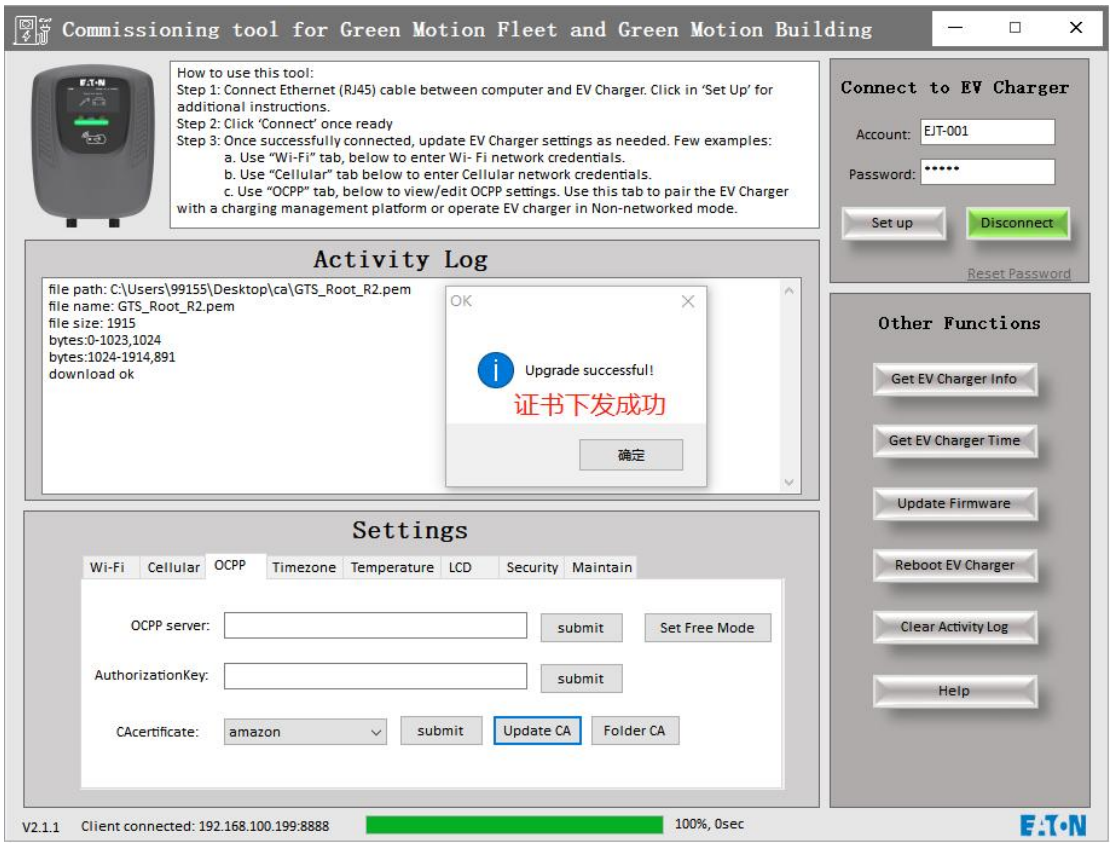
打开
« 桌面 › ca ›
在 ca 中搜索
组织
新建文件夹
文档
坚果云
此电脑
网络
GTS_Root_R3.pem
PEM 文件
769 字节
2.选择证书路径
GTS_Root_R4.pem
PEM 文件
769 字节
文件名(N):
3.打开
打开(O)
取消
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
OCPP server:
submit
Set Free Mode
AuthorizationKey:
submit
CAcertificate:
amazon
submit
Update CA
Folder CA
1.选择外部证书
V2.1.1
Client connected: 192.168.100.199:8888

图 4.3.4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Step 2: Click 'Connect' once ready
Step 3: Once successfully connected, update EV Charger settings as needed. Few examples:
a. Use "Wi-Fi" tab, below to enter Wi- Fi network credentials.
b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Activity Log
file path: C:\Users\99155\Desktop\ca\GTS_Root_R2.pem
file name: GTS_Root_R2.pem
file size: 1915
bytes:0-1023,1024
bytes:1024-1914,891
download ok
OK
Upgrade successful!
证书下发成功
确定
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
OCPP server:
submit
Set Free Mode
AuthorizationKey:
submit
CAcertificate:
amazon
submit
Update CA
Folder CA
V2.1.1
Client connected: 192.168.100.199:8888
100%, 0sec

图 4.3.5

（3）、更新证书池文件：

点击“Folder CA”按钮，选择外部证书文件夹进行批量下载，如图 4.3.6；

下载成功后如图 4.3.7；

在 Maintain 栏输入“cc get ca_lib”指令可查看当前证书池的文件信息，包含文件名/大小信息和文件总数，如图 4.3.8。

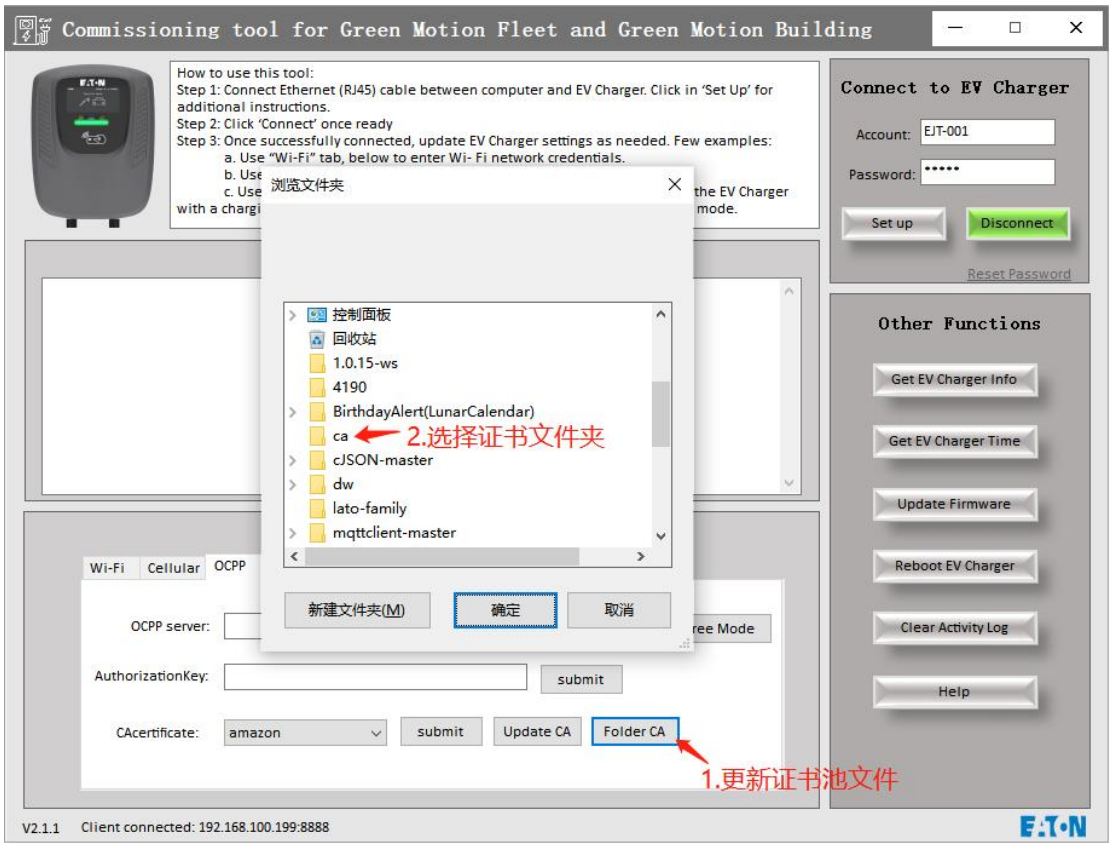
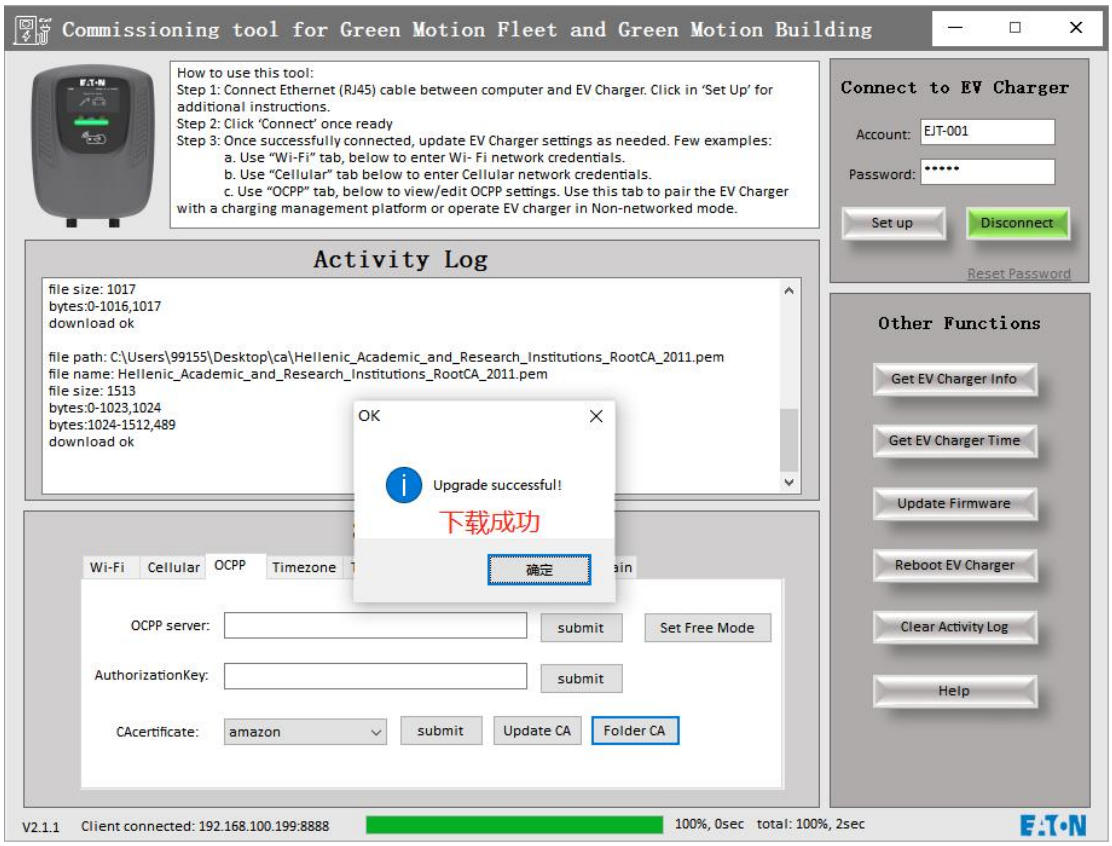


图 4.3.6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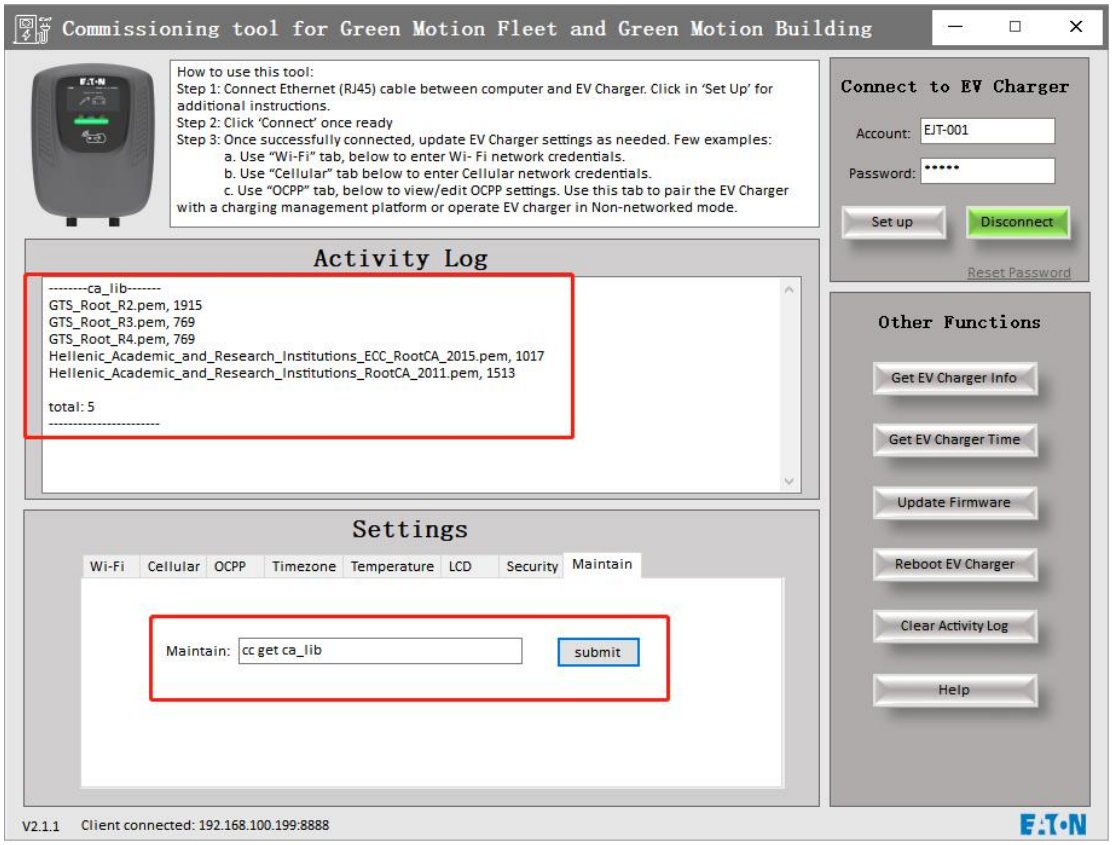
b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
file size: 1017
bytes:0-1016,1017
download ok
file path: C:\Users\99155\Desktop\ca\Hellenic_Academic_and_Research_Institutions_RootCA_2011.pem
file name: Hellenic_Academic_and_Research_Institutions_RootCA_2011.pem
file size: 1513
bytes:0-1023,1024
bytes:1024-1512,489
download ok
OK
Upgrade successful!
下载成功
确定
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Wi-Fi
Cellular
OCPP
Timezone
OCPP server:
submit
Set Free Mode
AuthorizationKey:
submit
CAcertificate:
amazon
submit
Update CA
Folder CA
V2.1.1
Client connected: 192.168.100.199:8888
100%, 0sec
total: 100%, 2sec

图 4.3.7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Step 2: Click 'Connect' once ready
Step 3: Once successfully connected, update EV Charger settings as needed. Few examples:
a. Use "Wi-Fi" tab, below to enter Wi- Fi network credentials.
b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
--------ca_lib-------
GTS_Root_R2.pem, 1915
GTS_Root_R3.pem, 769
GTS_Root_R4.pem, 769
Hellenic_Academic_and_Research_Institutions_ECC_RootCA_2015.pem, 1017
Hellenic_Academic_and_Research_Institutions_RootCA_2011.pem, 1513
total: 5
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
Maintain:
cc get ca_lib
submit
V2.1.1
Client connected: 192.168.100.199:8888

图 4.3.8

4.4、配置时区：

（1）、选择“Timezone”菜单栏，Time zone 选项栏下拉选择对应的时区，点“submit”即可进行时区设置，log 区会提示“set success”和设置的值，如图 4.4.1。

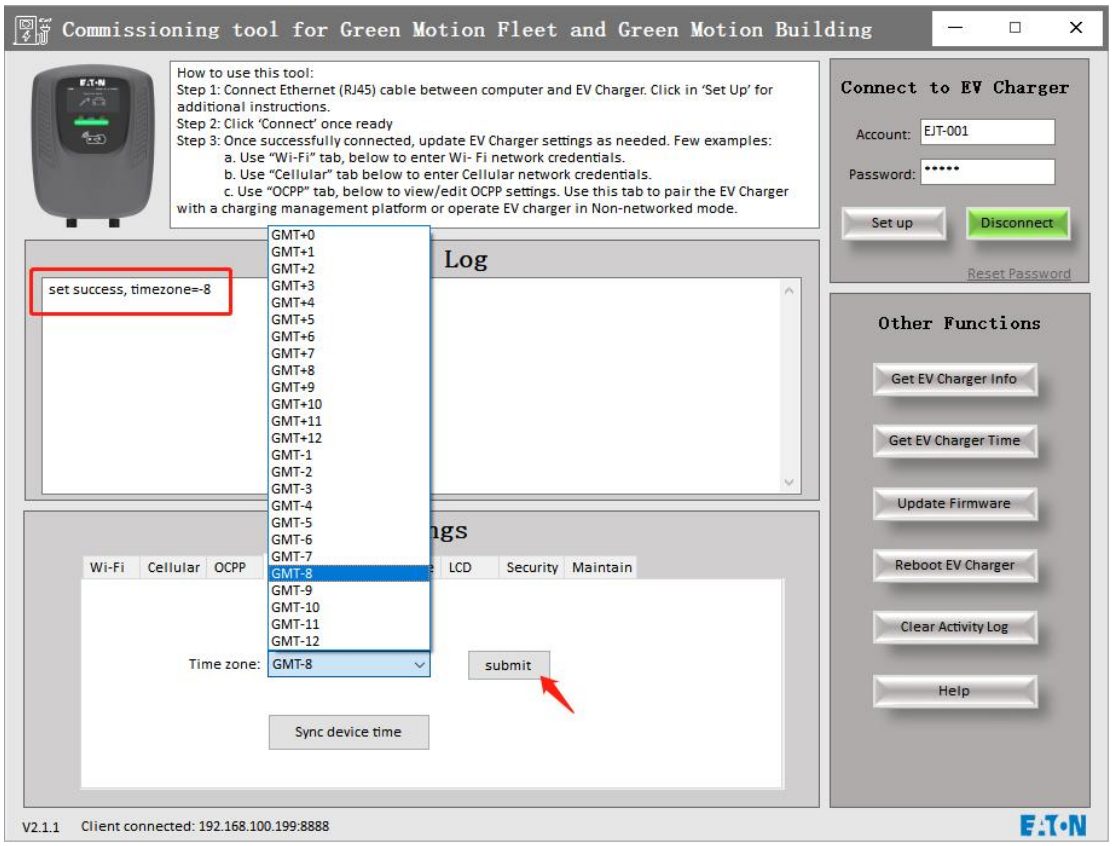


图 4.4.1

（2）、点“Sync device time”按钮会弹窗提示是否同步当前时间，点确定会同步当前时间，如图 4.4.2。

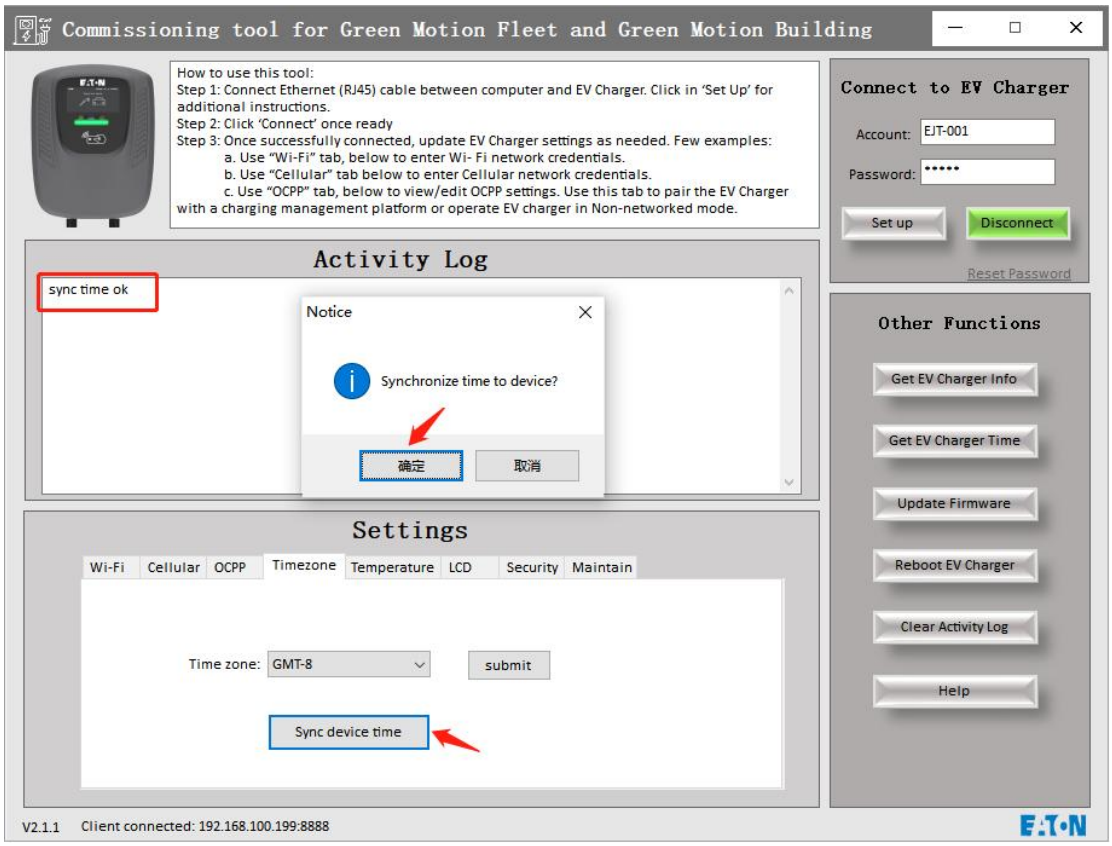
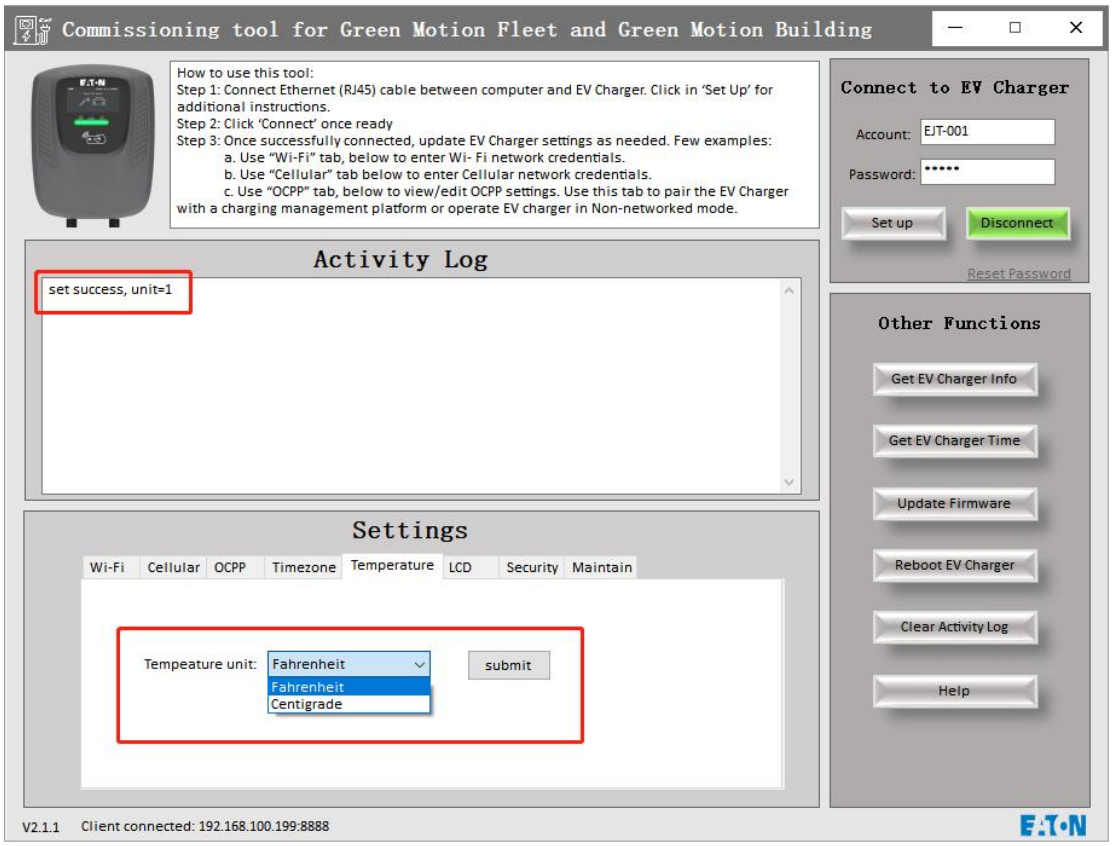


图 4.4.2

4.5、配置温度单位：

（1）、选择“Temperature”菜单栏，Tepeature unit 选项栏下拉选择对应的温度单位，点“submit”即可进行温度单位设置，log 区会提示“set success”和设置的值（Fahrenheit 的 unit 值为 1，Centigrade 的 unit 值为 0），如图 4.5.1。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b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
set success, unit=1
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
Tempeature unit:
Fahrenheit
Fahrenheit
Centigrade
submit
V2.1.1
Client connected: 192.168.100.199:8888

图 4.5.1

4.6、配置 LCD：

（1）、选择“LCD”菜单栏，Language 选项栏下拉选择对应的语言，点“submit”即可进行 LCD 语言设置，log 区会提示“set success”和设置的值（English 值为 0，Spanish 的值为 1，French 的值为 2），如图 4.6.1。

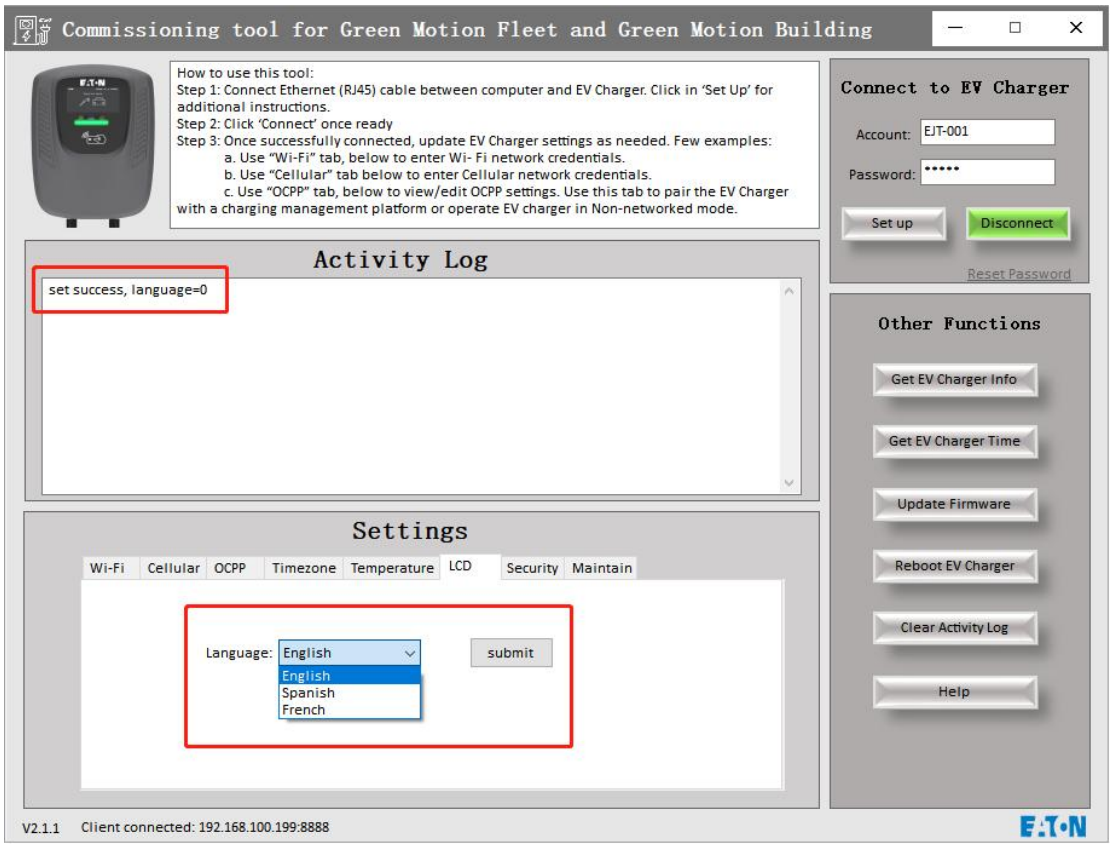

图 4.6.1

4.7、安全项相关：

4.7.1、修改 TCP 工具登入密码：

（1）、在“SignIn”菜单栏下输入旧密码和新密码，点“submit”提交修改，如图 4.7.1。注：密码长度需大于等于 8 字符，包含数字、小写字母、大写字母及特殊符，否则会有相应弹窗警告。

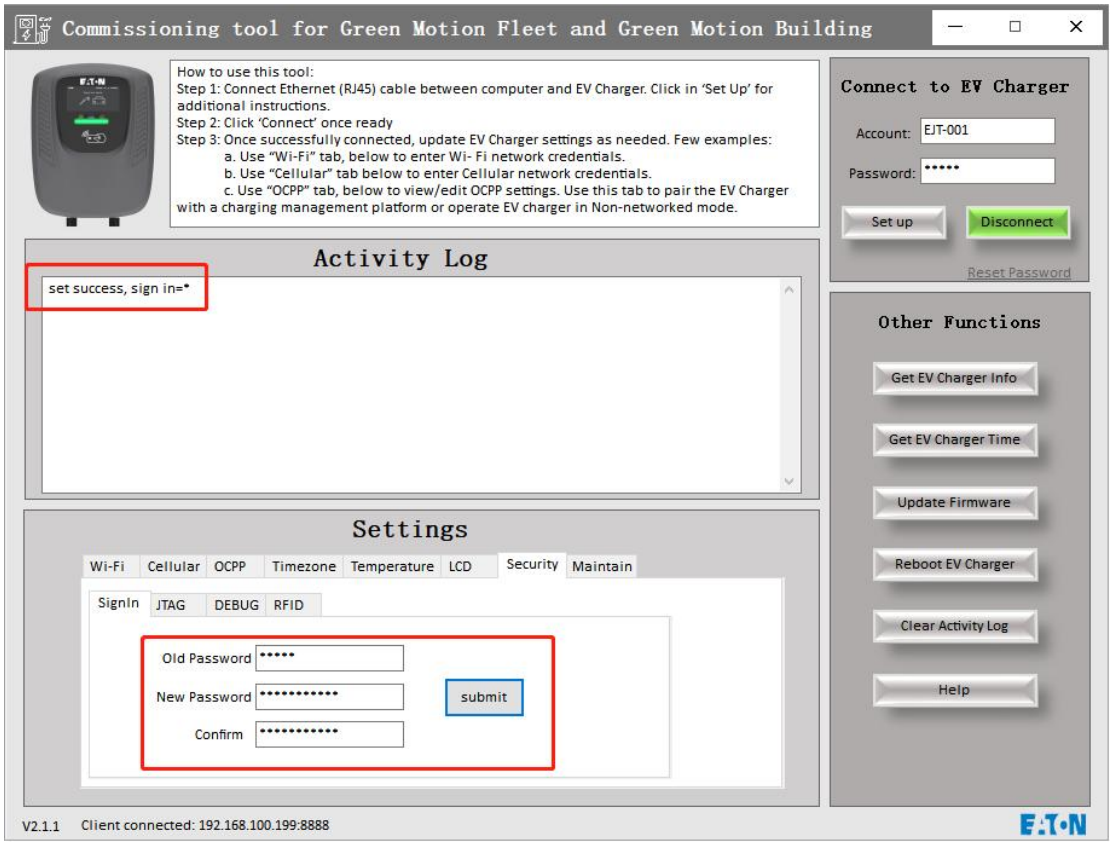

图 4.7.1

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4.7.2、JTAG 使能/关闭:

（1）、在“JTAG”菜单栏下勾选 Enable 选项则打开 JTAG 功能，不勾选 Enable 选项则关闭 JTAG 功能，如图 4.7.1。

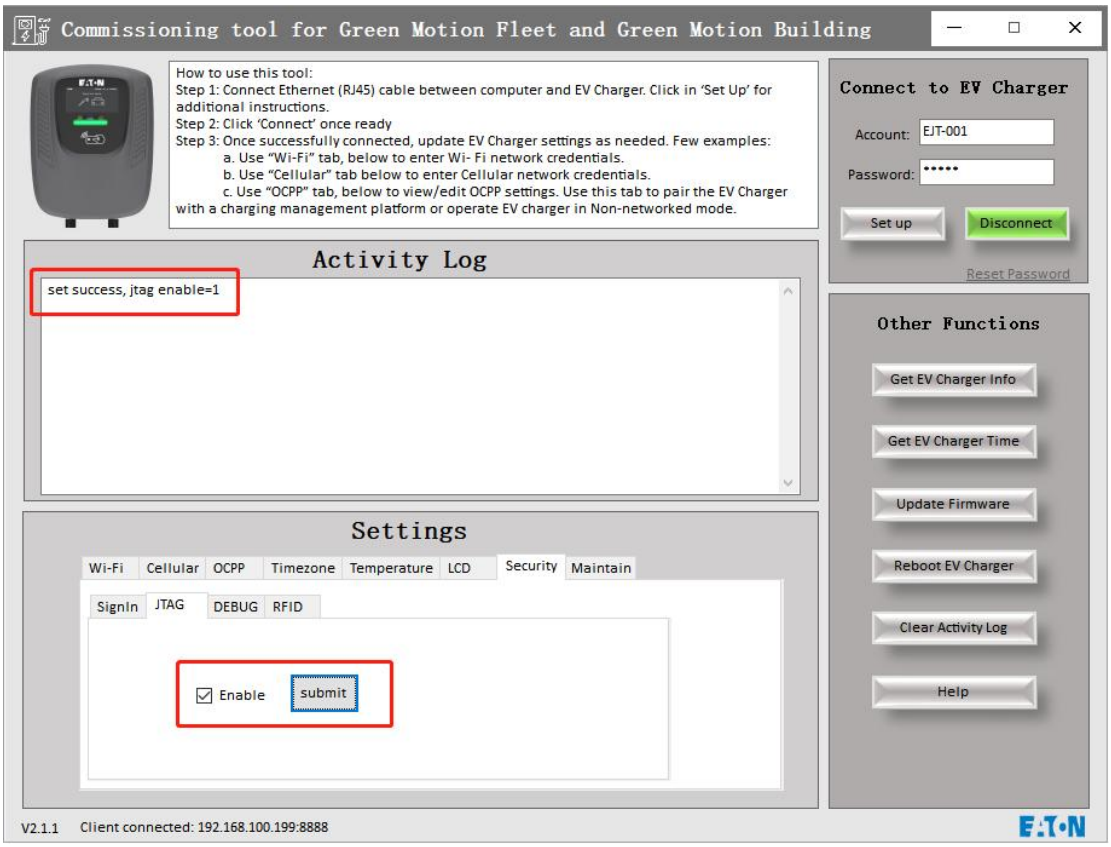


图 4.7.1

4.7.2、DEBUG 日志密码修改:

（1）、在“DEBUG”菜单栏下输入旧密码、新密码及新密码确认（Confirm），点“submit”按钮进行修改，如图 4.7.2。

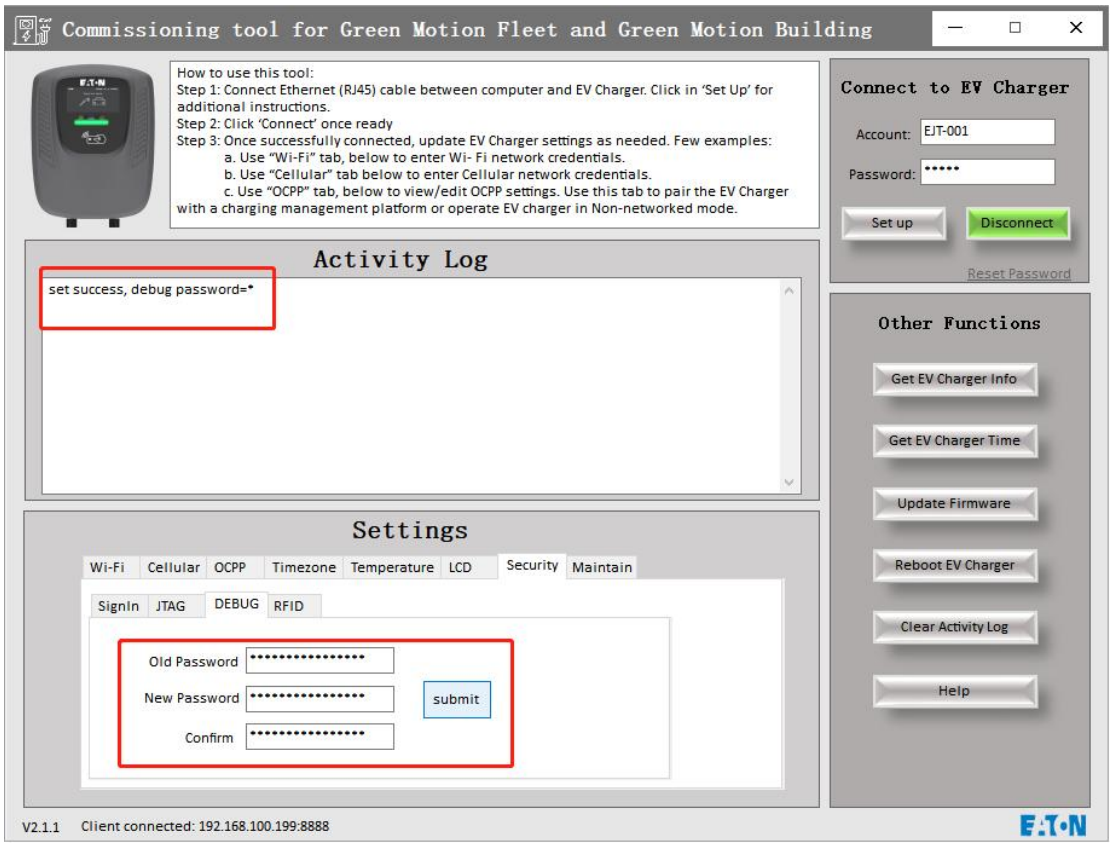
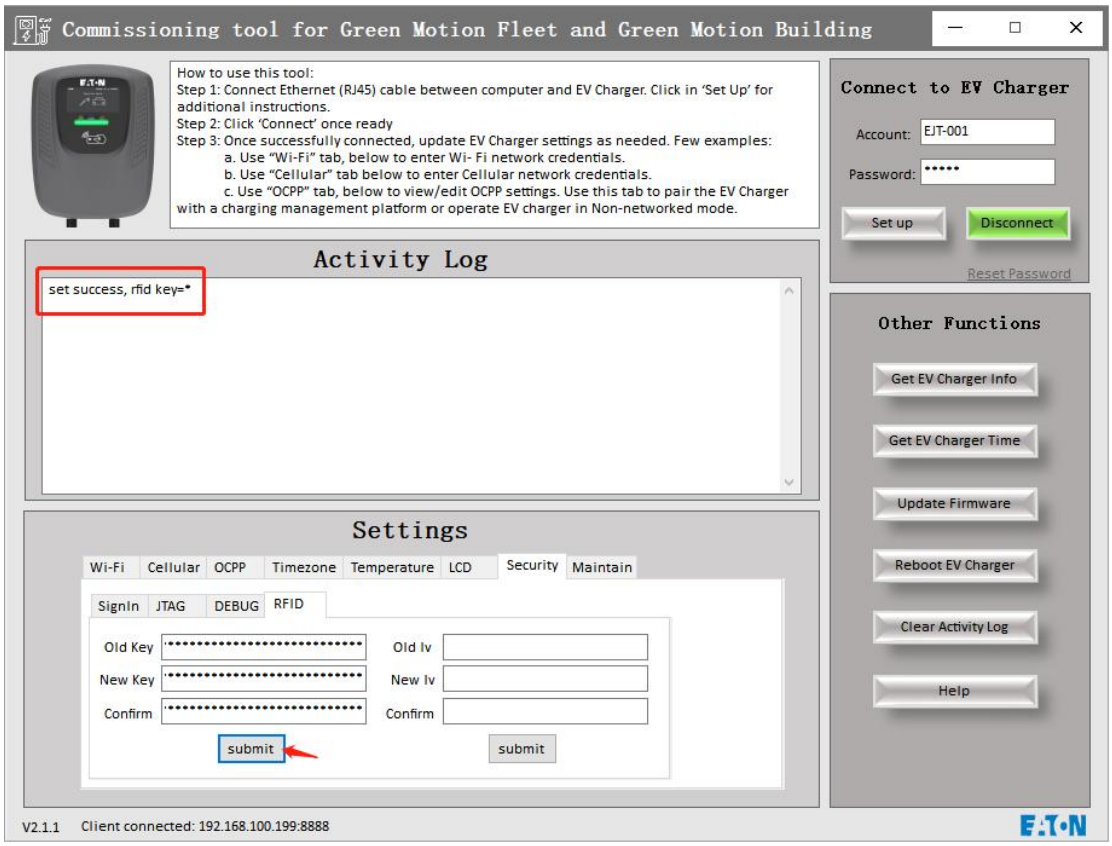


图 4.7.2

4.7.3、RFID 模块密码修改:

（1）、RFID 模块秘钥包含两部分 key 值和 iv 值，各 16 字节（32 字符）；
（2）、在“RFID”菜单栏下输入旧 Key、新 key 及新 key 确认（Confirm）,点“submit”按钮进行 key 值修改。
（3）、iv 值修改同 key 值一样。

注意：修改密码需确保 RFID 模块已连接，否则会出现“(rfid module err)”提示。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b. Use "Cellular" tab below to enter Cellular network credentials.
c. Use "OCPP" tab, below to view/edit OCPP settings. Use this tab to pair the EV Charger with a charging management platform or operate EV charger in Non-networked mode.
Connect to EV Charger
Account: EJT-001
Password: •••••
Set up
Disconnect
Reset Password
Activity Log
set success, rfid key=*
Other Functions
Get EV Charger Info
Get EV Charger Time
Update Firmware
Reboot EV Charger
Clear Activity Log
Help
Settings
Wi-Fi
Cellular
OCPP
Timezone
Temperature
LCD
Security
Maintain
SignIn
JTAG
DEBUG
RFID
Old Key
New Key
Confirm
Old Iv
New Iv
Confirm
submit
submit
V2.1.1
Client connected: 192.168.100.199:8888

图 4.7.3

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