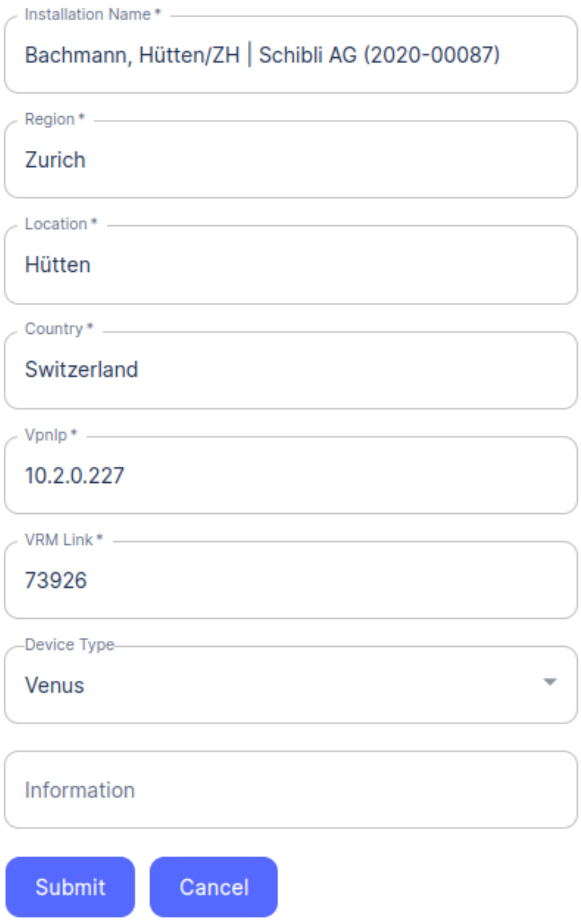
Cerbo

Step 1: Update Git

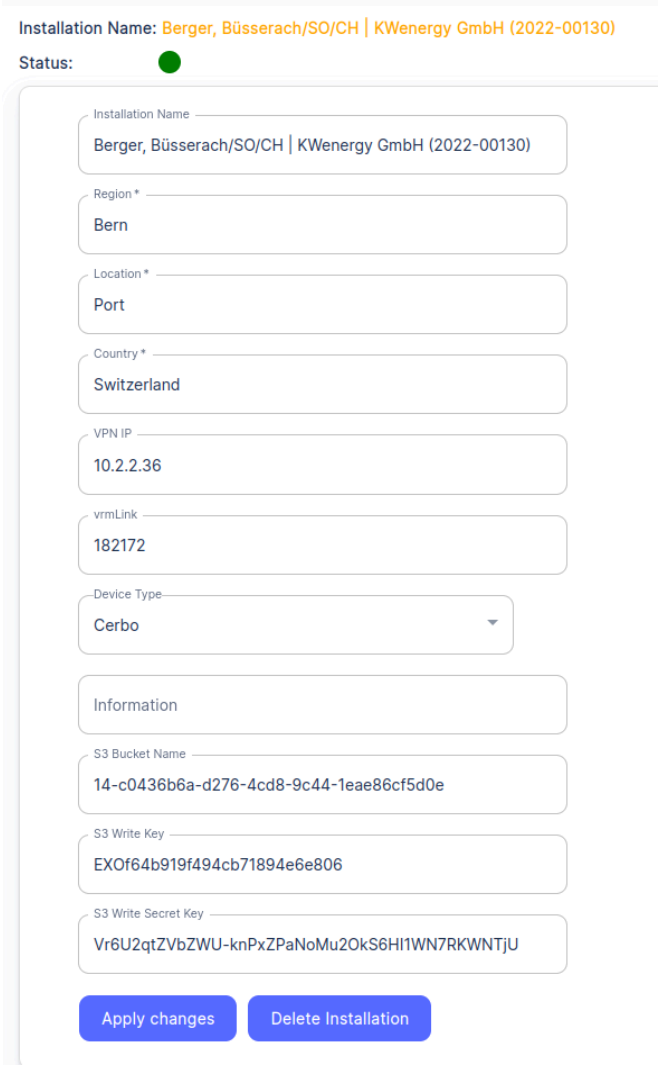
1. Update local git repo to get the newest ***Cerbo_Release*** folder (under ***firmware*** directory), which contains ***CerboReleaseFiles*** folder, ***update_Cerbo.py*** and this document.

Step 2: Create bucket and update config.py

1. Open ***Installation_Data.xlsx*** at ***Cerbo*** sheet and pick the installation needs to update and **mark the installation in your color**
   - ★ **Click the VRM link and check the installation status first, if it's abnormal, no need to update**
2. Go to monitor and click ***Add new Installation*** button



3. Copy ***Installation Name***, ***VpnIp*** and ***VRM Link****(only the number before /dashboard in the link as follows)* from the sheet to here. Fill out ***Region***, ***Location*** and ***Country*** using Google Map. Choose ***Venus*** as ***Device Type***. And then press ***Submit***.
    - ★ Location<Region<Country
    - ★ https://vrm.victronenergy.com/installation/**182172**/dashboard
4. Go to ***Information*** tab of the installation, and copy ***S3 Bucket Name***, ***S3 Write Key***, ***S3 Write Secret Key*** one by one to update ***s3 configuration*** in ***config.py*** under the directory of ***Cerbo_Release/CerboReleaseFiles/dbus-fzsonick-48tl***
    - ★ Please refresh the web page to get these information
    - ★ For the S3 bucket name, only need to change the installation id at the beginning.
    - ★ **Please make sure to copy the full key content.**
    - ★ **Please bear in mind that this step needs to be done for each installation!!!**

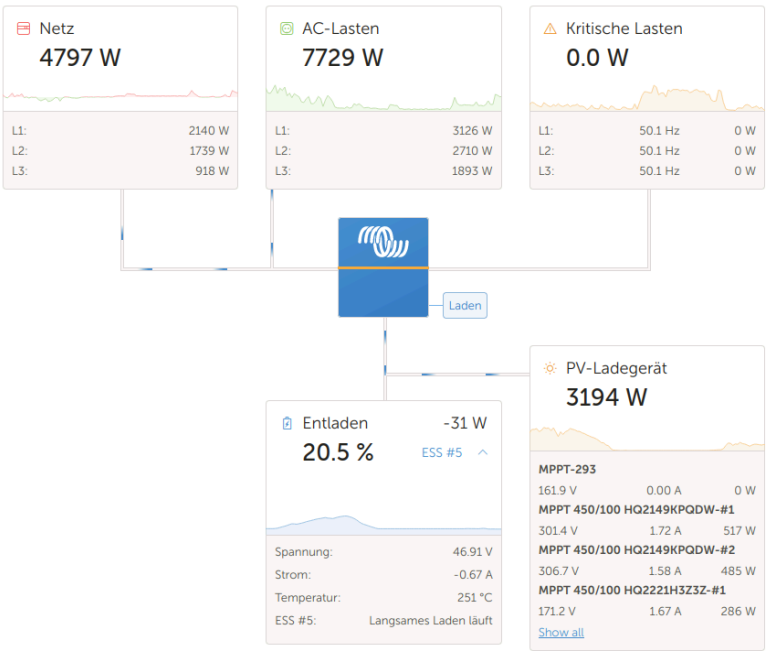


```
14
15  #s3 configuration
16  S3BUCKET = "2-c0436b6a-d276-4cd8-9c44-1eae86cf5d0e"
17  S3KEY    = "EXO5b2e35442791260eaaa7bdc8"
18  S3SECRET = "XFFOVzenDiEQoLPmhK6ML9RfQfsAMhrAs25MfJxi-24"
```

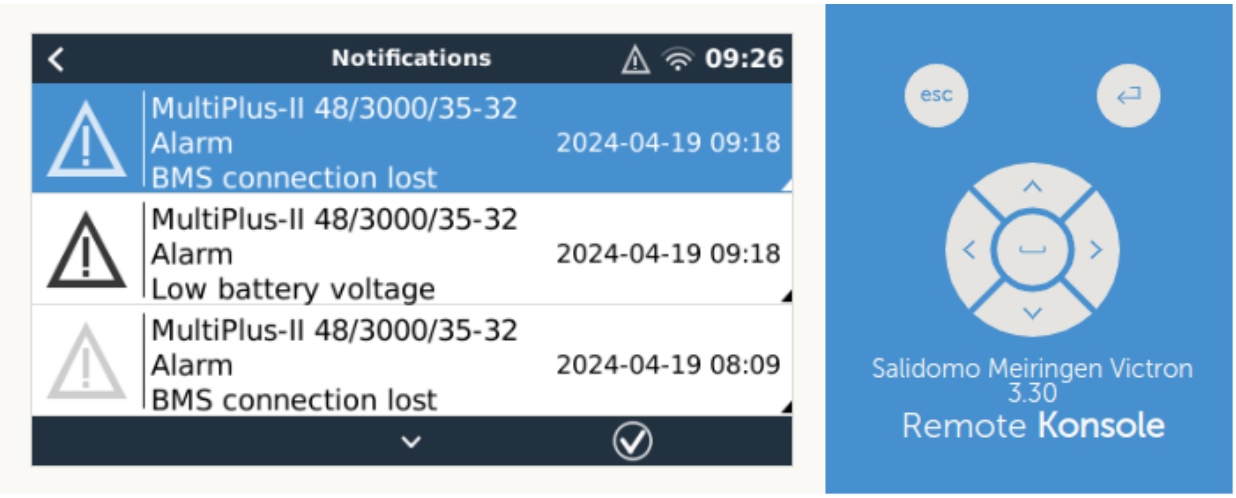
Step 3: All magic here

1. Navigate to ***Cerbo_Release*** directory in any kind of terminal
2. Run the script with the command: **python3 update_Cerbo.py <VPN_IP>**
   - ★ Replace <VPN_IP> with the actual VPN ip of the installation
   - ★ **If it gets stuck after a firmware update for a long time, try press Enter in the console where this script is running. If it takes way too long,e.g. over 20 minutes, please mark the installation and leave it there.**
   - ★ **If there is any mistake popping up during the process, simply comment previous procedures, and run the following part again.**

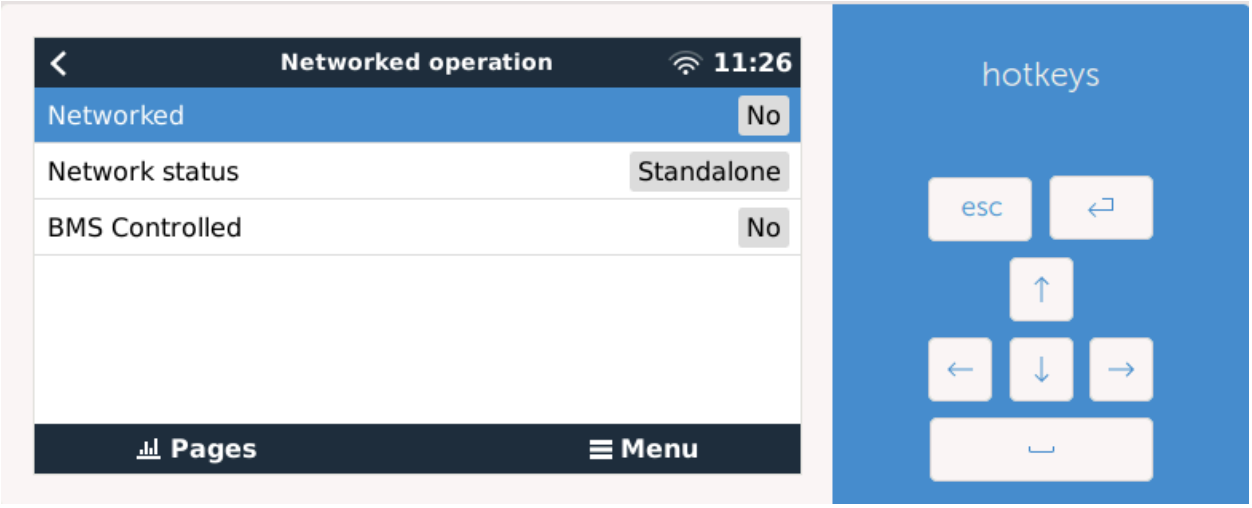
Step 4: Disconnect MPPT with BMS if there is PV on DC



1. If the installation has PV on the battery side as above, there would be an alarm in ***Remote Console*** in ***VRM*** complaining BMS connection lost from MultiPlus as follows



2. Go to ***Menu=>Device List=>SmartSolar MPPT VE.Can 250/100 rev2=>Networked operation=>BMS Controlled***, press ***Press to reset***. It turns out to be No as follows.



★ **There may be more than 1 MPPT in an installation as shown in Device List, please repeat this step for each of them!!!**

Step 5: Check everything works well

1. Whether the battery is there on VRM
2. Whether the battery is there on monitor
3. **Mark the installation in correct color red (failure with comments) or green(success)**