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
2. Go to monitor and click **Add new Installation** button

3. Copy **Installation Name**, **Vpnlp** 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. And then press **Submit**.
   - ★ Location<Region<Country

★ https://vrm.victronenergy.com/installation/**182172**/dashboard

4. Go to *Information* tab of the installation, choose the *Device Type* as *Cerbo*, 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*

   ★ 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!!!**

Installation Name: Berger, Büsserach/SO/CH | KWenergy GmbH (2022-00130)

Status: 🟢

Installation Name
Berger, Büsserach/SO/CH | KWenergy GmbH (2022-00130)

Region *
Bern

Location *
Port

Country *
Switzerland

VPN IP
10.2.2.36

vrmLink
182172

Device Type
Cerbo ▾

Information

S3 Bucket Name
14-c0436b6a-d276-4cd8-9c44-1eae86cf5d0e

S3 Write Key
EXOf64b919f494cb71894e6e806

S3 Write Secret Key
Vr6U2qtZVbZWU-knPxZPaNoMu2OkS6HI1WN7RKWNTjU

[Apply changes]   [Delete Installation]

```
14
15   #s3 configuration
16   S3BUCKET = "2-c0436b6a-d276-4cd8-9c44-1eae86cf5d0e"
17   S3KEY    = "EX05b2e35442791260eaaa7bdc8"
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**
   - ★ **The way to check whether the Cerbo is back is to ssh or open VRM to check Remote Console.**
   - ★ **If it gets stuck after a firmware update for a long time, try press Enter in the console where this script is running.**
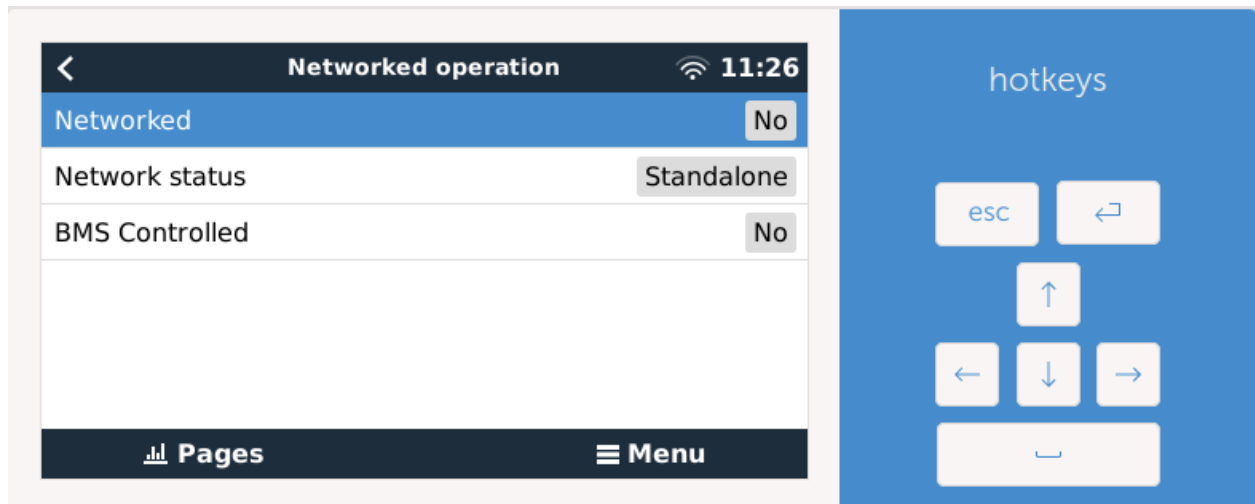
Step 4: Disconnect MPPT with BMS if there is PV on DC
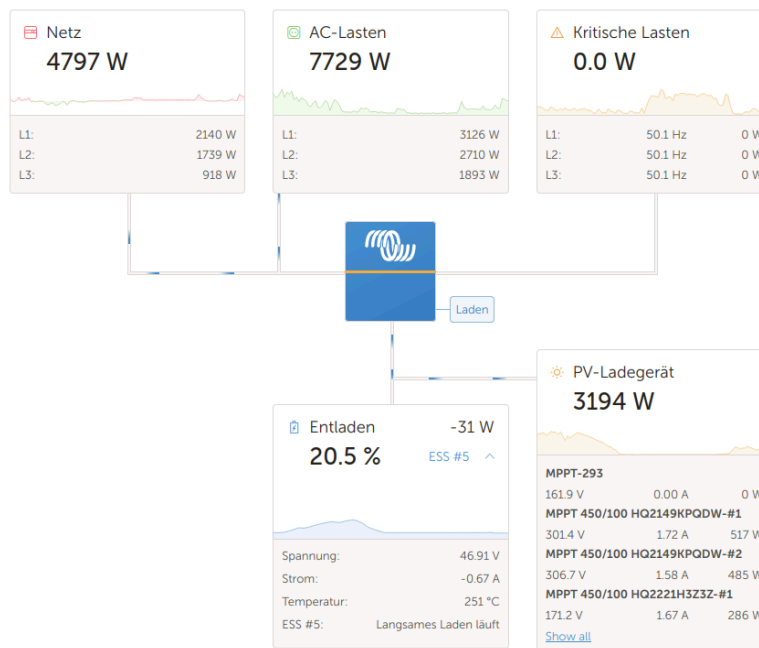
1. If the installation has PV on the battery side as above, there would be an alarm in *Remote Console* in *VRM* complaining BMS connection lost from MultiPlus as follows
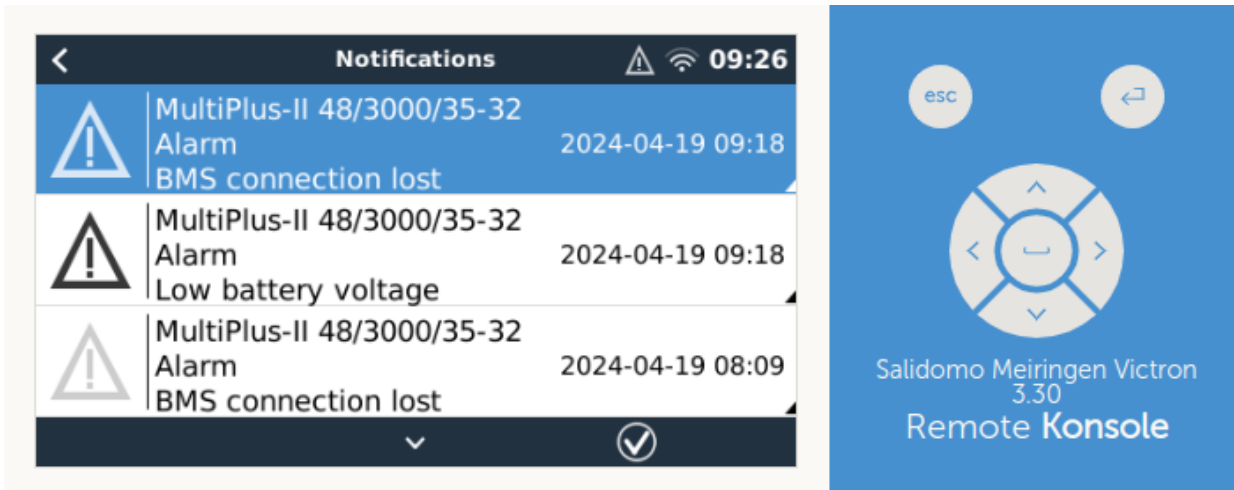
2. Go to **Menu=>Device List=>SmartSolar MPPT VE.Can 250/100 rev2=>Networked operation=>BMS Controlled**, press **Press to reset**. It turns out to be No as follows.

★ **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