

## Technical note: MG scripts installed on Victron GX devices

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This technical note points out a recent issue with the MG script installed on the latest Venus firmware version of Victron GX devices.

### The issue

The recent update of the Victron Venus OS firmware to version 2.8x included a number of changes in the subsystem. One of the updates is the use of Python 3 instead of Python 2. This is the cause that the scripts we use are not working anymore.

### The solution

To solve this problem the recommended solution is to downgrade the firmware to versions 2.62. It is also possible to use the scripts at version 2.7x, but there is a known issue as described below.

### Known issues

A known issue is a bug in Venus OS 2.7x that in some cases the “Combined battery” is not showing in the device list anymore. If this is the case then the recommended solution is to go back to firmware version 2.62.

### Procedure for downgrading to an older firmware version

*Computer/Laptop:*

1. Format an USB flash drive to FAT32.
2. Download the **.swu** firmware update file for your specific GX device. Use version 2.62.

GX: <https://updates.victronenergy.com/feeds/venus/release/images/einstein/>

CCGX: <https://updates.victronenergy.com/feeds/venus/release/images/ccgx/>

Venux GX: <https://updates.victronenergy.com/feeds/venus/release/images/beaglebone/>

MP-II GX and ES-II GX: <https://updates.victronenergy.com/feeds/venus/release/images/nanopi/>

Copy the files to the USB flash drive.

3. Remove USB flash drive safely from the computer/laptop.

*Victron GX device:*

1. Disable automatic update:  
Go to Settings->Firmware->Online updates->Auto update->Disable
2. Insert the USB flash drive in Victron GX device.
3. Go to Settings->Firmware->Install firmware from SD/USB and select version 2.62.

### **The future of the “Combined battery” and other scripts**

Instead of using a script that is installed as add-on to a GX device and be independent on updates of Victron we are working on a more independent and reliable solution. The SmartLink MX replaces the “Combined battery” script. This device combines multiple MG Master BMS devices and turns it into a new virtual battery bank on the NMEA2000 CAN-Bus. This new virtual battery bank can then be used for example in the GX as a battery monitor which will create the same effect as the “Combined battery” script. Next to this combine function the MG SmartLink MX also has functions to control other third party chargers and EV charge station interfaces. These functions are extended in the future by adding communication to control drive systems and more. This device will be available in Q2 2022.

Look at our Download Center for more information about the SmartLink MX.

<https://downloads.mgennergysystems.eu/smartlinkmx/brochures>