Victron serial starter

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Every once and a while we get a question similar to "Hi, I have the idea to read data from sensors such and such (for example tank senders) and I want to show that information on a CCGX, how can I do that?", or "Hi, how can I make the CCGX read data from my ModbusTCP enabled generator?".

To show the data on the GUI, it first needs to be made available on the D-Bus. D-Bus is the internal databus within Venus. The drivers publish their information on it, and the GUI, and also the ModbusTCP bridge for example, take the data from it. Messages can be sent back on it when the user changes a setting in the device. A schematic overview is given here, the specs of how we use D-Bus are here, and a list of parameters on D-Bus is here: dbus.

Above is all that is needed for data that is "more of the same", ie. types of sensors and/or devices that are not new to Venus OS. For other data, there is more code in Venus OS that needs modifying:

There are two related ways to "install" a driver. Most drivers are tied to a serial port and thus can be set up to be invoked by serial-starter. For other drivers, see the second technique below.

Alternative to stopping it manually, add a line in /etc/udev/rules.d/serial-starter les to make serial-starter ignore the type every time its plugged in. Since the root filesystem is mounted read-only,you will need to remount it to read-write before you can edit the file. There are three ways to change that:

Then restarted the Venus device, or just unplug and replug the USB cable, and then run the ps | grep command a few times again to make sure the serial port is left alone. And/or check the serial-starter log files.

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