Short guidebook on connecting DUT-E CAN and DFM CAN to GalileoSky and Teltonika telematics devices

1. Most popular sensors' parameters

1.1. DUT-E CAN fuel level sensor, main parameters:

PGN 62982 (0xF606) Filtered Fuel Level/Volume in Tank:

SPN 521023 - Fuel Tank Level (mm)

SPN 521024 – Fuel Tank Volume (L)

SPN 174 – Engine Fuel Temperature 1

PGN 65276 (0xFEFC) Dash Display:

SPN 96 – Fuel Level 1 (%)

PGN 63169 (0xF6C1) Unit DTCs:

SPN 521488 – Unit DTCs Mask

1.2. DFM CAN fuel flow meter, main parameters:

PGN 65262 (0xFEEE) Engine Temperature 1:

SPN 174 – Engine Fuel Temperature 1

PGN 65101 (0xFE4D) Total Averaged Information:

SPN 1834 – Engine Total Average Fuel Rate

PGN 62981 (0xF605) Flowmeter. Parameters:

SPN 521181 – Engine Mode by Fuel Rate

SPN 183 – Engine Fuel Rate

SPN 521027_18.0 – Chamber Fuel Rate (Feed chamber)

SPN 521027_18.1 – Chamber Fuel Rate (Reverse chamber)

PGN 64777 (0xFD09) High Resolution Fuel Consumption (Liquid):

SPN 5054 – High Resolution Engine Total Fuel Used

PGN 63111 (0xF687) Engine Total Hour Of Operation in Interference Mode:

SPN 521171_9.5 – Flowmeter Hours Of Operation (Interference)

SPN 521267 – Interference sensor occurrence count

1.3. Connecting several same type sensors to single telematics unit

When connecting several same type Units into a single bus, each unit should be assigned with unique address (last byte in CAN id).

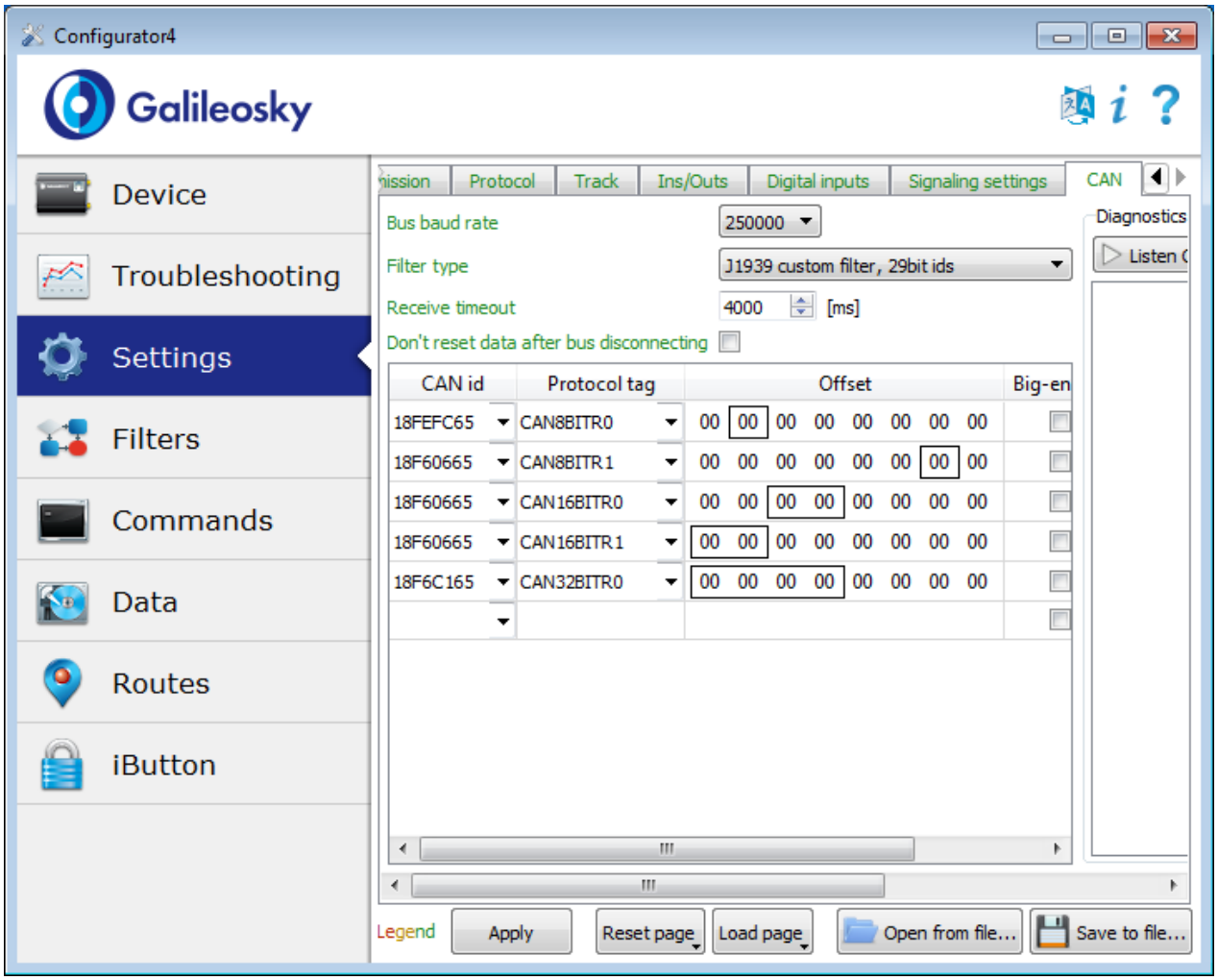
Address range for DUT-E is 101-108 (Hex 65-6C)

Address range for DFM is 111-118 (Hex 6F-76)

2. Configuring GalileoSky device (same procedure for all types)

If only one Unit (DUT-E CAN or DFM CAN) is connected, go to command line of **Commands** tab and send ActiveCAN 1 command.

If several Units (DUT-E CAN + DFM CAN, several DUT-E CAN or several DFM CAN) are connected, the command is not required.



Fgure 1 GalileoSky + DUT-E CAN

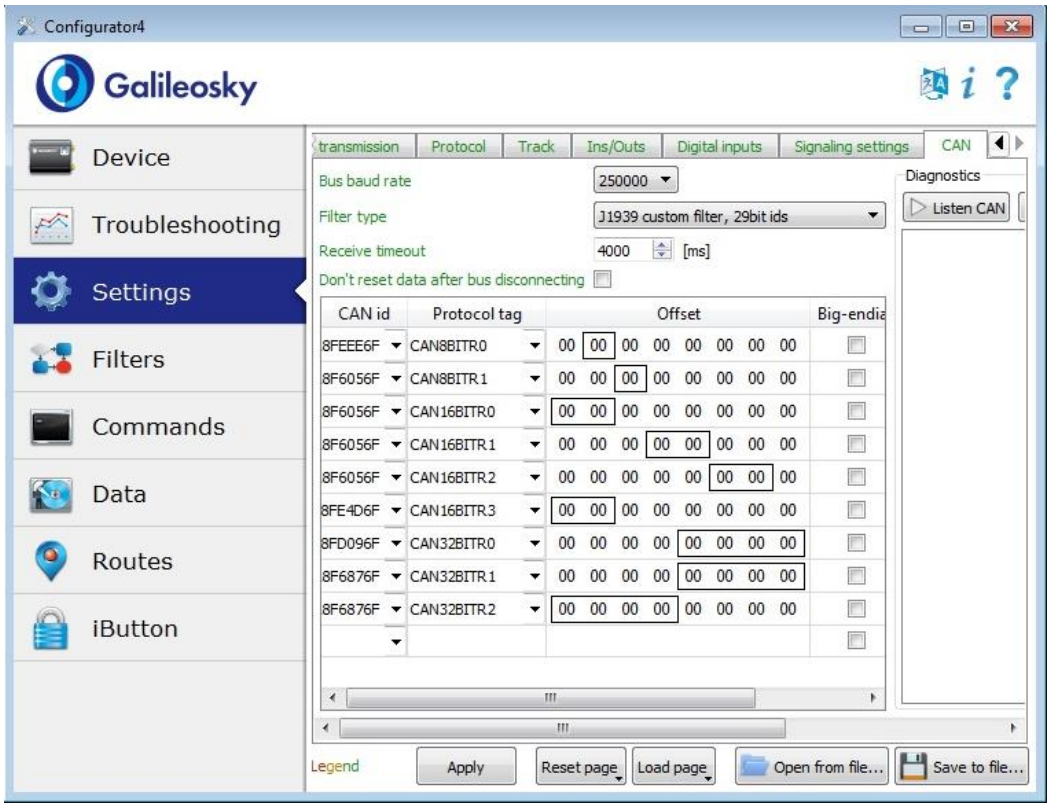


Figure 2 GalileoSky + DFM CAN

In **Protocol** tab select parameters to transfer:

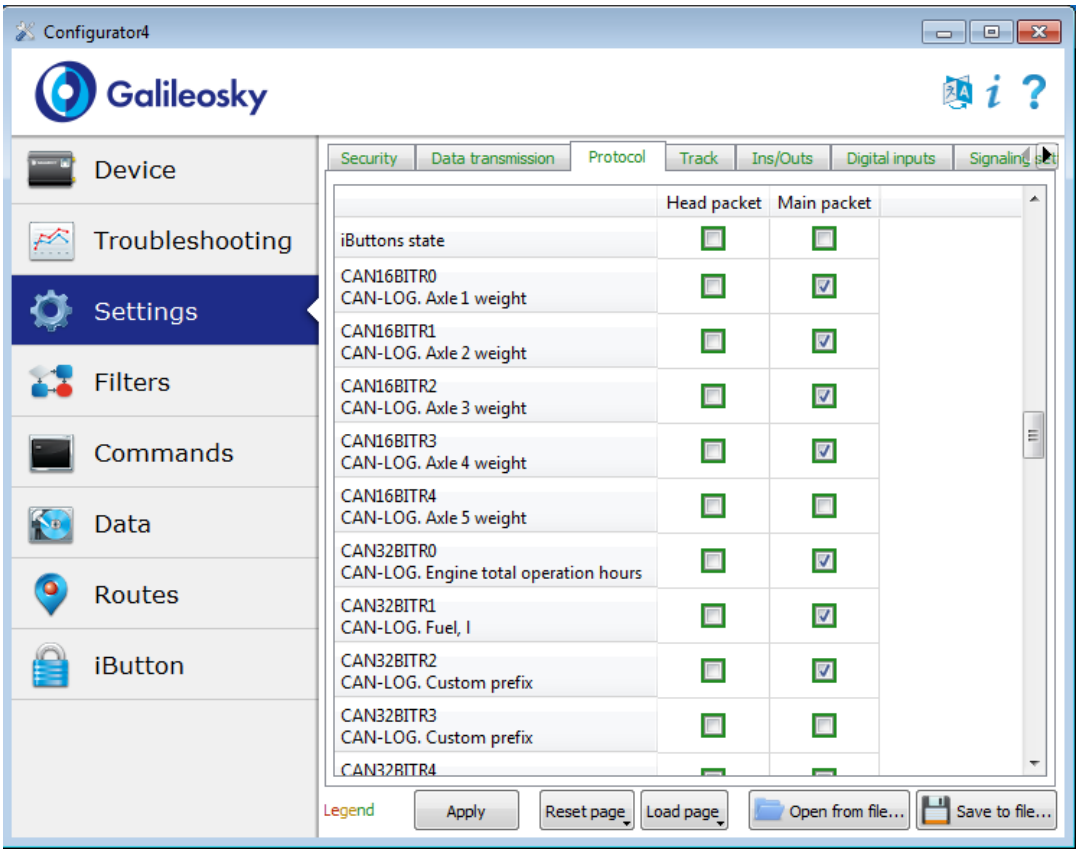
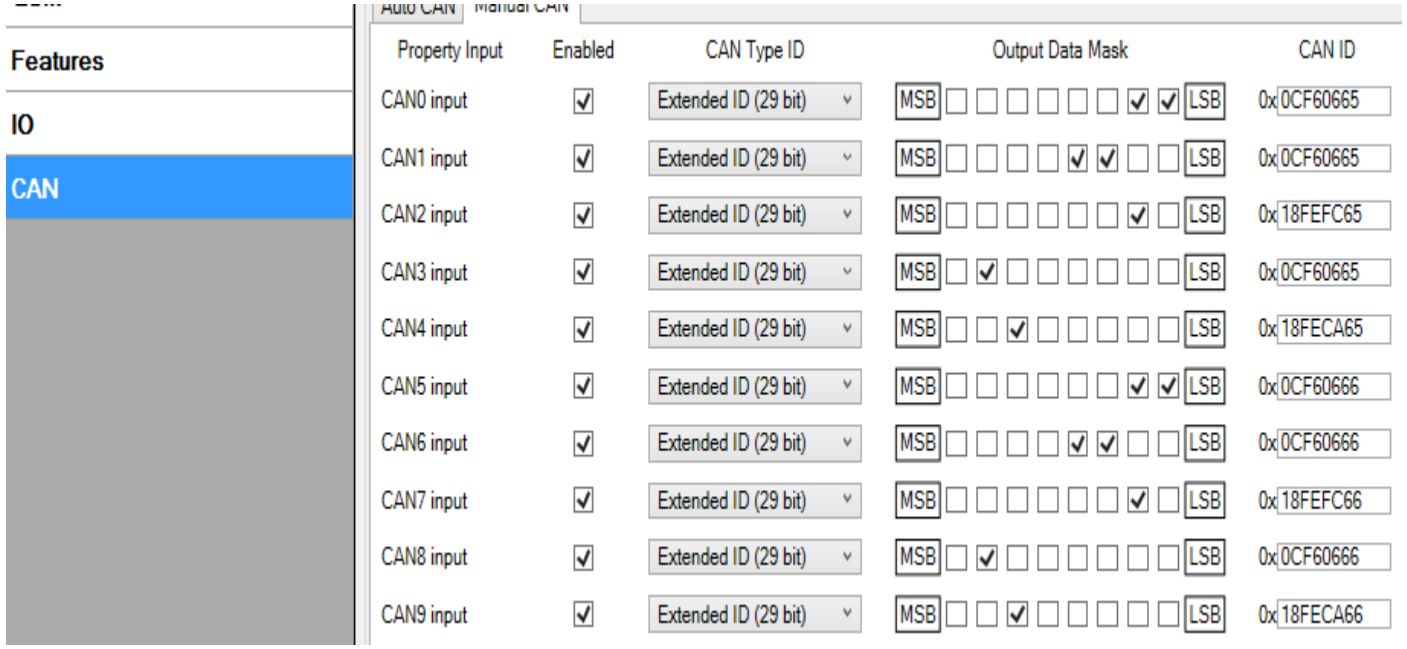


Figure 3 Protocol tab

3. Configuring Teltonika 5300 device

Configuring Teltonika device via CAN interface to get DUT-E CAN data (the example includes description of connecting 2x DUT-E CAN with 101-102 addresses).



Fuel Tank Level mm DUT1
Fuel Level 1 (%) DUT1
Engine Fuel Temperature 1 DUT1
Occurrence Count DUT1
Fuel Tank Level mm DUT2
Fuel Tank Volume (L) DUT2
Fuel Level 1 (%) DUT2
Engine Fuel Temperature 2
Occurrence Count DUT2
Fuel Tank Level mm DUT1

Figure 4 Teltonika+DUT-E CAN x2.

When applying masks in messages, keep in mind that first byte is located on the right side (LSB).

Configuring Teltonika device via CAN interface to get DFM CAN data.

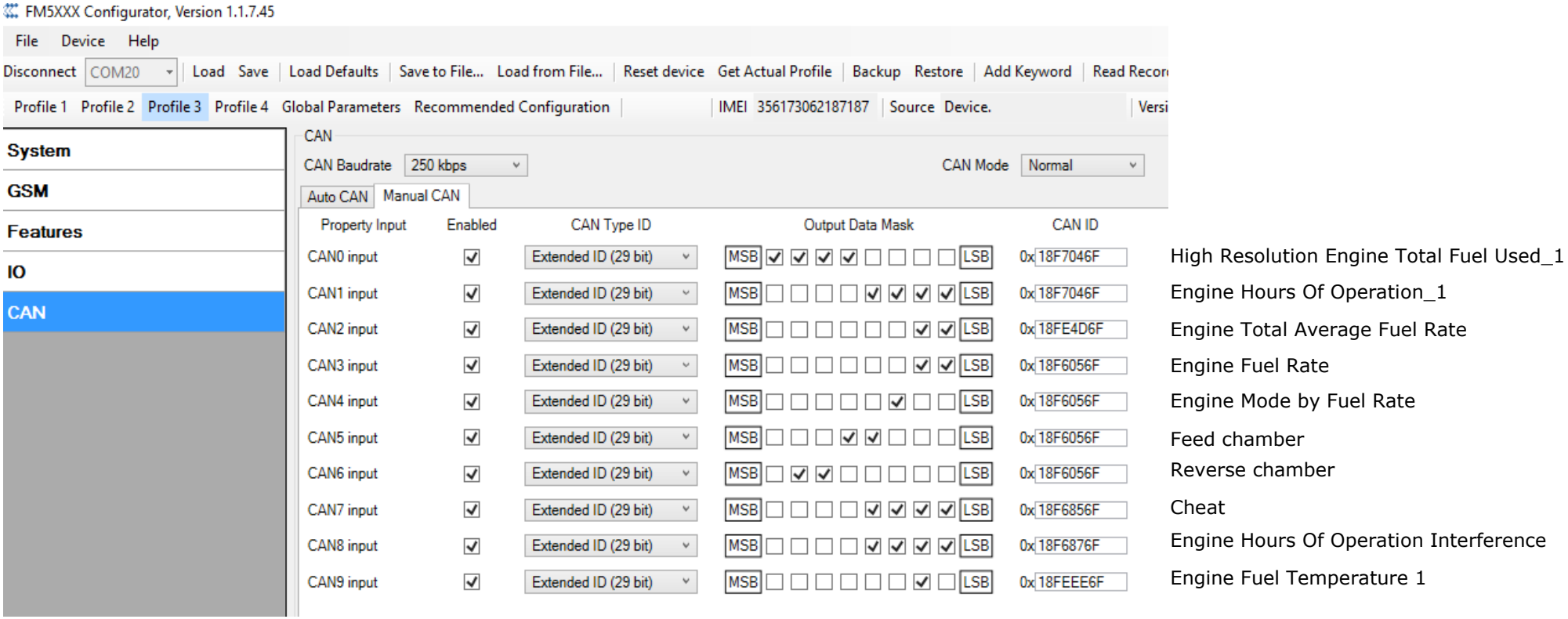


Figure 5 Teltonika+DFM CAN

For more detailed configuration, we recommend registering in http://s6.jv-technoton.com. There you can find description of all remaining parameters (also contained in Operations Manuals on DUT-E and DFM in Document Center). Taking in account, that majority of telematics devices have limited slots for configuring and sending SPN to a server, we described only popular one in this paper. If you want to get other SPN – telematics devices are configured the same way as described in examples above.