Note regarding the attached files:

* **UDSFlasher.zip** – once extracted, there will be an .exe file and a .dll file along with a batch file **FBCM-AppOnly.bat** that can be used to run the UDSFlasher.

**UDSFlasher.exe** – can be used to update bootloader, app, or calibration. In addition, it can also be used to send out a single UDS command if needed. To view help menu, just type the following command at the prompt.

C:\UDSFlasher\UDSFlasher\_3\_02.exe --help

**The FBCM – AppOnly.bat** command line has the followings:

UDSFlasher\_3\_02.exe 0x615 0x616 1 125 update C:\FF\_FlashStation\FF\_FlashStation\bin\Debug\Images\FBCM\_App\_GAMMA.hex -b 2 -s

0x615 – UDS request ID

0x616 – UDS response ID

1 – PCAN dongle device #1 (or first device connected if there are multiple ones)

125 – 125K CAN bus baud rate

update - update ECU command

C:\FF\_FlashStation\FF\_FlashStation\bin\Debug\Images\FBCM\_App\_GAMMA.hex – path location

-b – binary format

2 – component ID for FBCM application

-s – signature

**Sending out a single UDS command to read application and calibration software identification data identifier**

UDSFlasher\_3\_02.exe 0x615 0x616 1 125 readdid 0xF181

* **Log of FBCM App update – 01122022.trc** is a CAN log file that can be viewed with a text editor like Notepad or Notepad++.

I added some comments to describe each command going to the target ECU during the whole update process using the UDSFlasher. However, there are a few more UDS DID commands that need to be supported during the OTA, particularly some as below.

* Boot Software Identification Data Identifier (0xF180)
* Application and Calibration Software Identification Data Identifier (0xF181)
* ECU Hardware Part Number (0xF191)
* ECU Hardware Version Number (0xF193)