

Instructions for Upgrading the Firmware for Daviteq Sigfox Sensor

1. Preparation

- 1.1 Prepare a ST-LINK V2 cable that connect between PC and the sensor.
- 1.2 Save the updated firmware file (.hex) to the PC for flashing to the sensor.
- 1.3 Save the ID & PAC file (.bin) to the PC for configuring the sensors.

2. Download and install the software "STM32 ST-LINK Utility".

The software can be downloaded from internet via the link:<https://www.st.com/en/development-tools/stsw-link004.html>

Get Software				
Part Number	General Description	Latest version	Supplier	Download
STSW-LINK004	STM32 ST-LINK utility (replaced by STM32CubeProgrammer)	4.6.0	ST	Get latest

Figure 1. Getting the software from the website.

3. Set up the hardware

- i** Connect the USB port of the ST-LINK V2 to the PC. The other end should be plugged into the PRG port of the sensor.



Figure 2. Hardware setup

4. Software configuration

- i** 4.1. Open the **STM32 ST-LINK Utility** software.

4.2 Target => Settings. Then, select "**Connect Under Reset**" and check "**Enable debug in Low power mode**" in Mode section =>OK

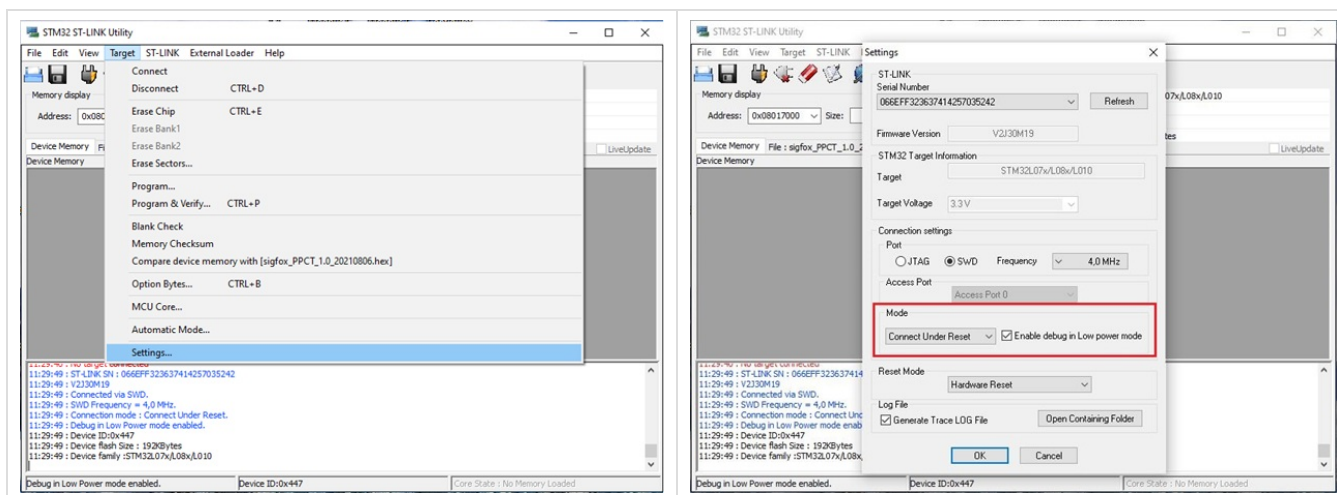


Figure 3. Software configuration

⚠ Make sure that the PC has a connection to the devices with the cable provided.

5. Loading firmwares.

5.1 Target -> Program & Verify...

5.2 File path => Browse => Choose firmware file (.hex)

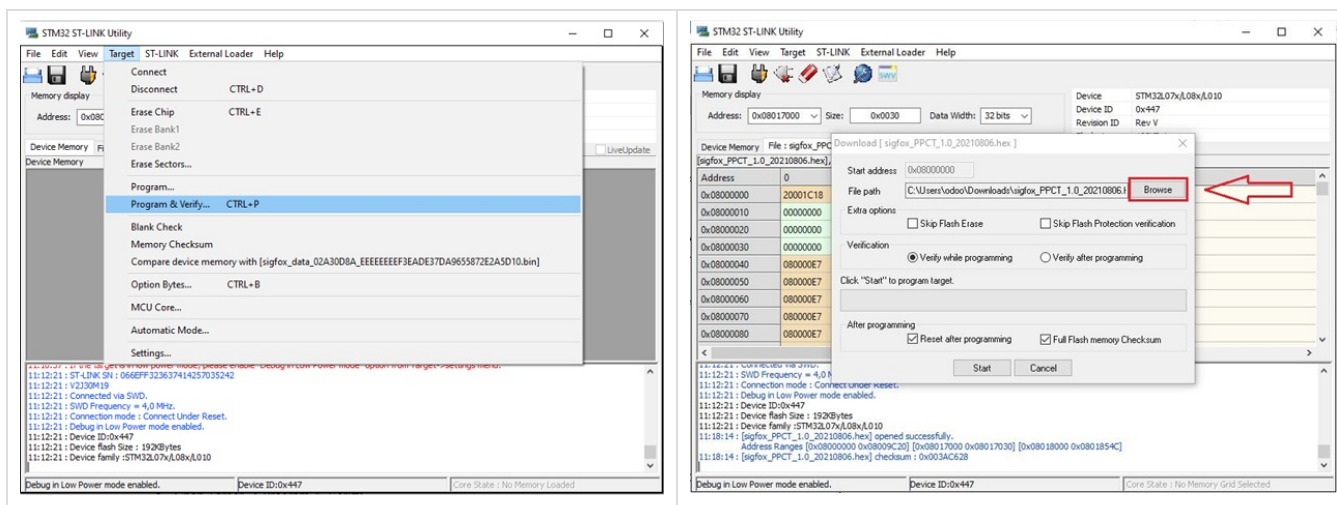
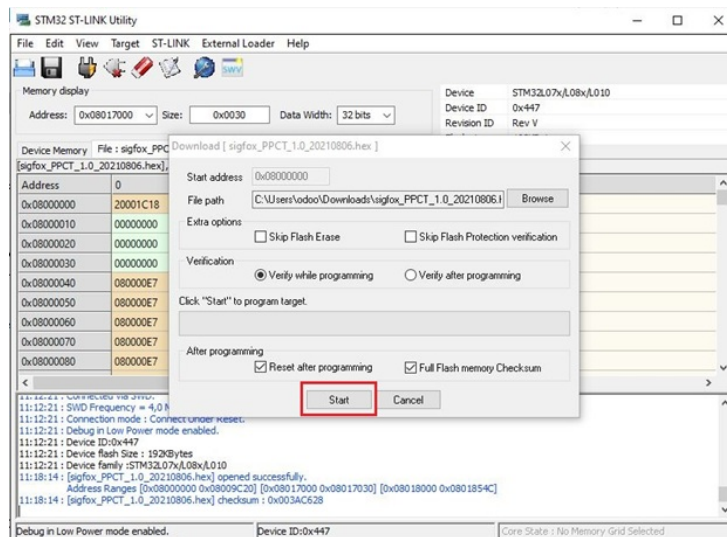


Figure 4. Import firmware file

5.3 Press **Start** to load the firmware to the sensor



- ✔ When the firmware is successfully loaded, the software will display information with figure 6

6. Loading ID and PAC.

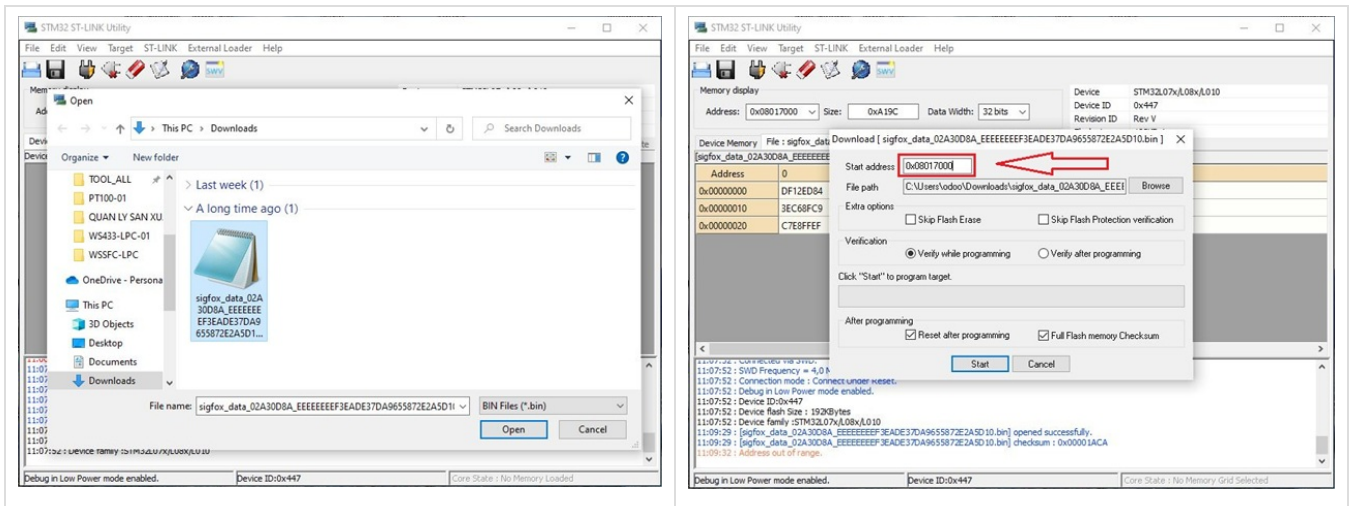


Figure 7. Loading ID&PAC

- ✓ When the firmware is successfully loaded, the software will display information with image 4.

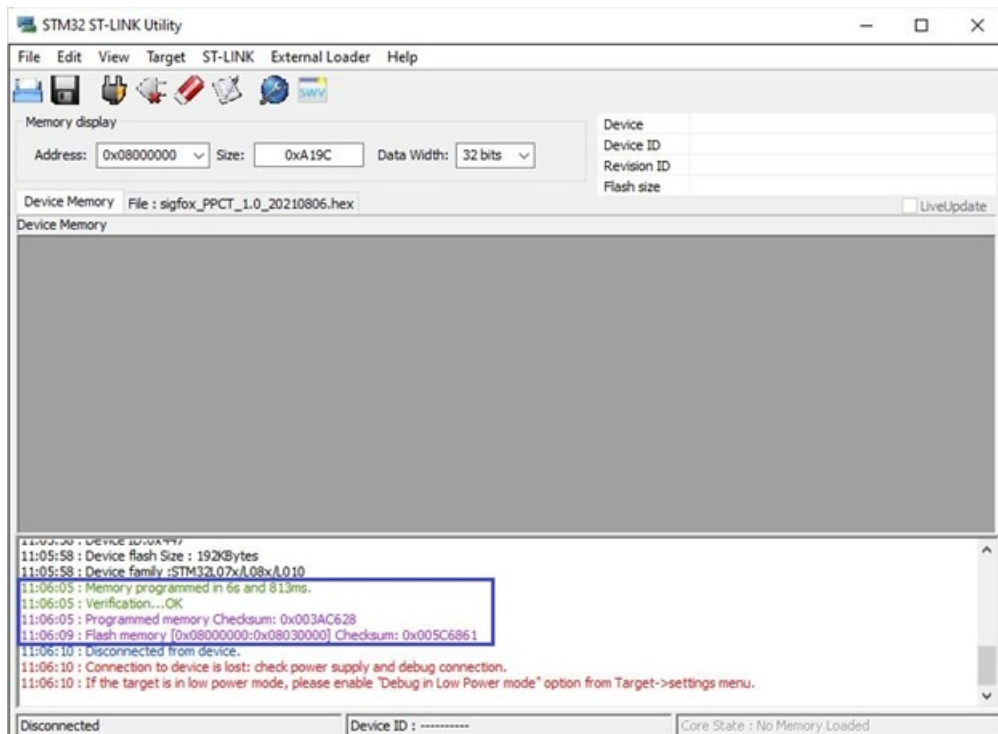


Figure 8. Successfully loading ID& PAC

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