

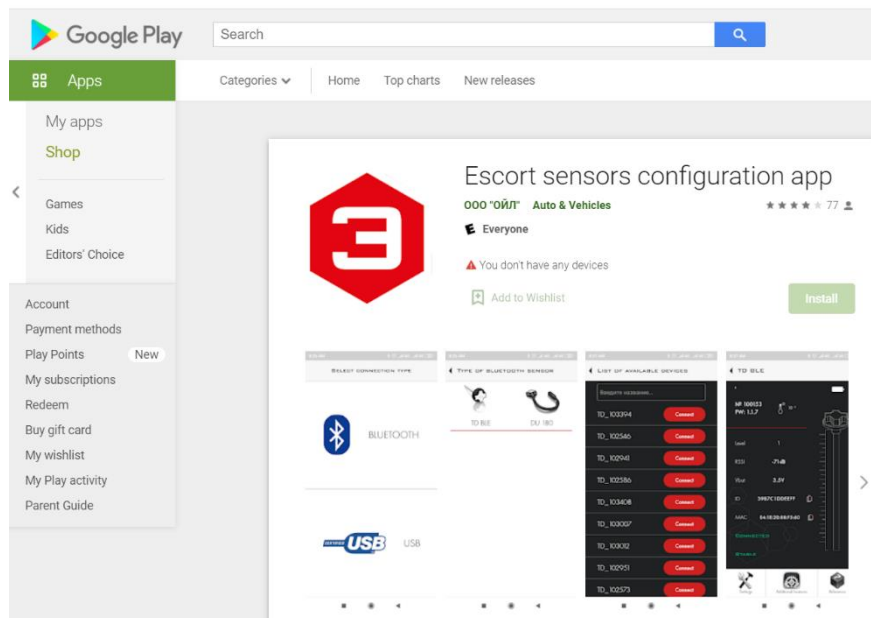


## **TD BLE Firmware Update Manual**

### **1. Via Escort Configurator mobile app**

To update the TD BLE follow the steps described below

1. Make sure that your phone supports Bluetooth LE (BLE 4.0 or higher). To find out if your phone has Bluetooth 4.0 or higher, please, refer to the manual or tech specification sheet.
2. Download the Escort Configurator app on your Android or IOS phone. Figure 1 shows what the application looks like in the Google Play Store



**Figure 1. Escort Configurator at the Play Store**

3. FOR ANDROID OS PHONES: Download the FW (firmware) file to your Android phone before updating. The latest version of the FW is 1.3.4 (as of 17-06-2021). If you cannot find the version of the said firmware on our website, then you can contact us via our channels: WhatsApp or Telegram +7 960 046 4665 or Skype: @escort2b and we will send you the latest version of the firmware. Figure 2 shows what the firmware file looks like on your smartphone.

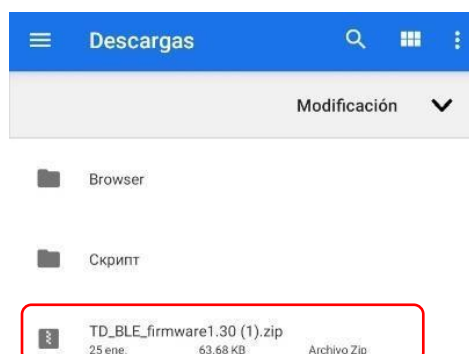


Figure 2. Firmware downloaded to an Android phone

3.1 FOR IPHONE: Download the FW onto your iPhone before doing the update. After downloading the FW for example via Whatsapp as seen in the Figure 3, you must “send” the said FW to the Escort configurator application (or to the nRF connect app) as seen in the Figure 4 and 5. Once the FW has been sent to the Escort configurator application, continue the with the next step.

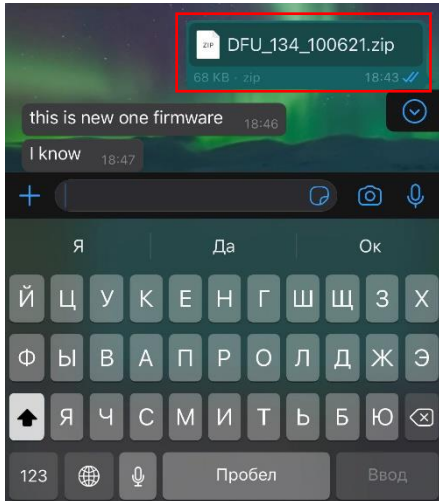


Figure 3. Firmware downloaded

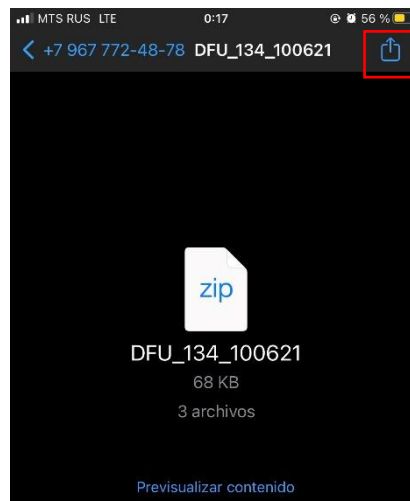


Figure 4. FW sent

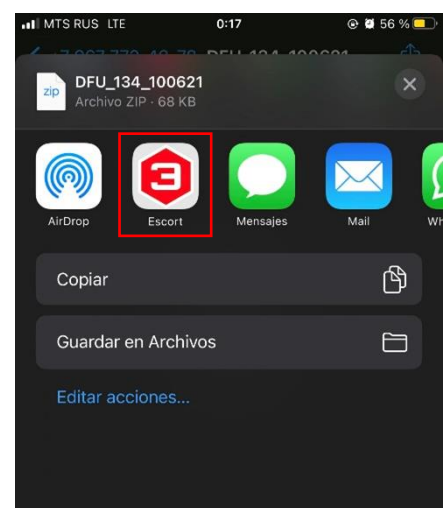


Figure 5. Select the Escort App

4. Open the Escort configurator application and connect the TD BLE that you need to update to your smartphone via the app. Figure 6 shows the sensor already connected to the app

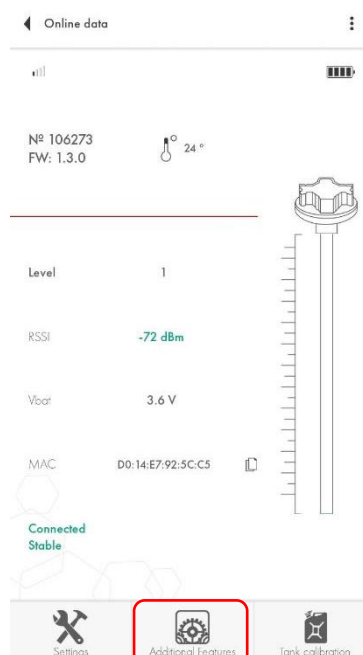


Figure 6. TD-BLE 100315 sensor connected to the Escort Configurator mobile application

5. Go to the Additional Features menu, press the Update FW button as shown in the Figure 7. Enter the password of the sensor when the app requires that.

Additional Features

Password for changing settings

Password

Remove

Disable Thermal Compensation ☐

Data encryption ☐

Manual configuration input

Full  39944

Empty  24535

Install

FW update

Synchronize time

Figure 7. Additional Features

- Note that, after pressing the FW Update button, the sensor must appear as a TD\_UPDATE\_N device as shown in the Figure 8. Then select the previously downloaded file by pressing the FW File button and then press the FW Update button (Figure 8).

FW UPDATE

File

File name:

File size:

Device

Device name: TD\_UPDATE\_N

MAC: D0:14:E7:92:5C:C6

FW file

Find device

START FW UPDATE

Figure 8. FW update mode

7. After pressing the Update FW button, wait for the bar to hit 100%, then the FW will be updated as seen in the sequence in the Figure 9.

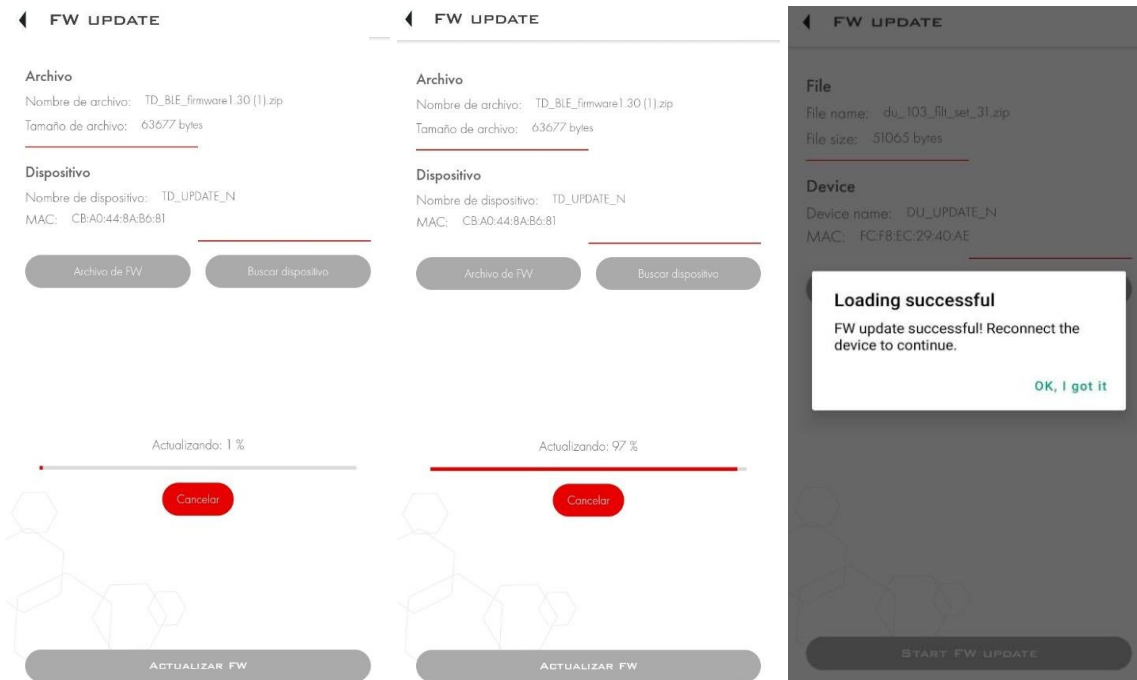


Figure 9. FW update sequence

8. After updating the Firmware, disconnect and reconnect the TD BLE sensor in the mobile application.

## **2. Firmware update via Nrf Connect**

The Firmware Update Procedure for the Fuel Level Sensor TD-BLE

1. Check the availability of Bluetooth LE (BLE 4.0 and higher) on your cell phone or in its user manual.
2. Make sure the sensor is within the connectivity range of the smartphone and that it can be detected via the nRF Connect app (available on Google Play Market and AppStore).
3. Download the firmware to your device beforehand. The firmware file in the .zip format. It should not be opened or tampered with, just download it.

**For iPhones, you can follow the steps indicated in the section 3.1 and in the Figures 3, 4 and 5 above, that is, you must send the downloaded firmware to the Nrf connect folder as seen in the Figures 10, 11 and 12.**

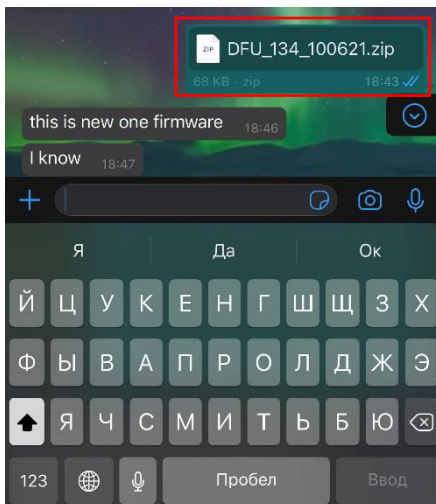


Figure 10. Firmware Downloaded

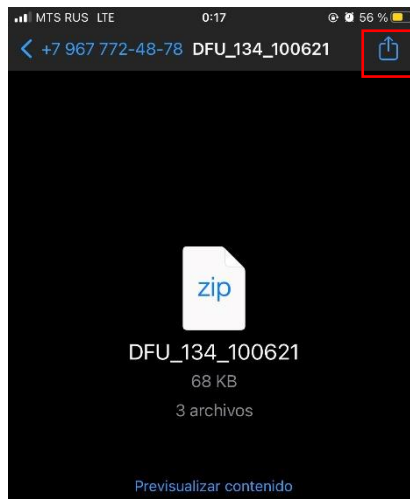


Figure 11. FW sent



Figure 12. Select nRF connect

4. Put the sensor in the firmware update mode (through our Escort Configurator mobile application, which is also available on Google Play Market or Appstore) by pressing the Update FW button shown in the Figure 13. In this mode the sensor appears as a TD\_UPDATE\_N device



Figure 13. Press the FW Update button

5. After the sensor is in the firmware update mode you have 30 seconds to update it.

6. A new device called TD\_Update will appear on the list in the nRF Connect app (Figure 14). Be sure to press the Scan button in the upper right corner and swipe from top to bottom to refresh the list if necessary.

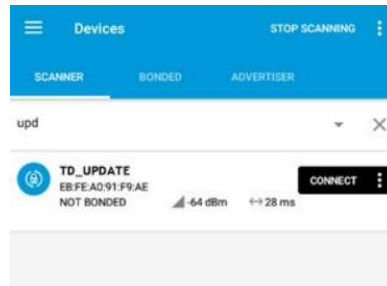


Figure. 14 TD\_UPDATE

7. Connect the TD\_UPDATE device by pressing the Connect button.
8. After clicking on the **DFU icon** (Fig. 15, in red), select the distribution package (ZIP) on the next screen. Then in the file manager select the file previously downloaded onto your smartphone (Fig. 16).
- On iPhone: you will see the list of files previously copied into the nRF Connect app after pressing the DFU button.**
9. If everything is done correctly, the progress bar will appear on the screen. You must wait until the end of the firmware update (Figure 17).

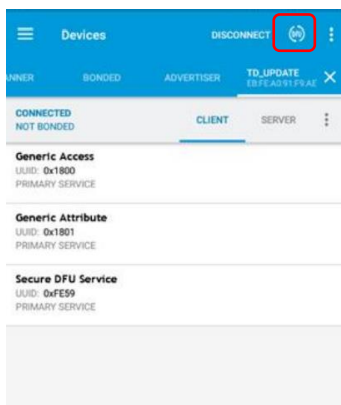


Figure 15. DFU

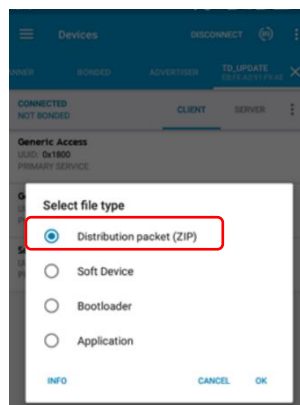


Figure 16. Select the FW



Figure 17. Update in progress

10. After a successful software update, the sensor will automatically reboot and you will need to connect it again in the Escort app.