

## User Guide

# Bluetooth module Firmware Update via nRF Connect App

### 1 TASKS IN DOCUMENT

The document presents a brief explanation of how to update the Bluetooth-Firmware of HCT tools via HCT mobile App and nRF Connect App.

**Info:** Only example images of one device are shown. All steps are also valid to any connected device that is able to perform the update process.

### 2 EQUIPMENT

#### 2.1 HCT device

<b>Device Description</b>	Bluetooth-enabled and “updatable” HCT device
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#### 2.2 Mobile Device

<b>Model</b>	Any mobile (Android or iOS) model can be used
<b>Operating System</b>	Android or iOS
<b>Software</b>	HCT mobile App, <i>nRF Connect App</i>

### 3 APP INSTALLATION

#### 3.1 Hoffmann Connected Tools (HCT) App

To install this application, go to *Google Play Store* for Android or *App Store* for iOS and search for “**Hoffmann connected tools**” and click on install.



#### 3.2 nRF Connect App (for mobile)

To install this application, go to *Google Play Store* for Android or *App Store* for iOS and search for “**nRF Connect for mobile**” and click on install.



#### 4 Bluetooth Module Firmware Update - iOS

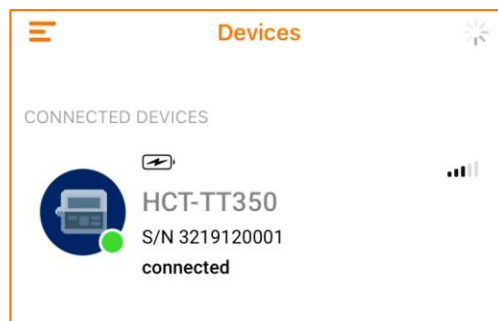
**Note:** If the Bluetooth connection or the update process is interrupted during the following steps, please restart the HCT device and the HCT mobile App and repeat the procedure.

**Preconditions:**

HCT mobile App Version 3.5.0 or higher is installed.

nRF Connect App is installed.

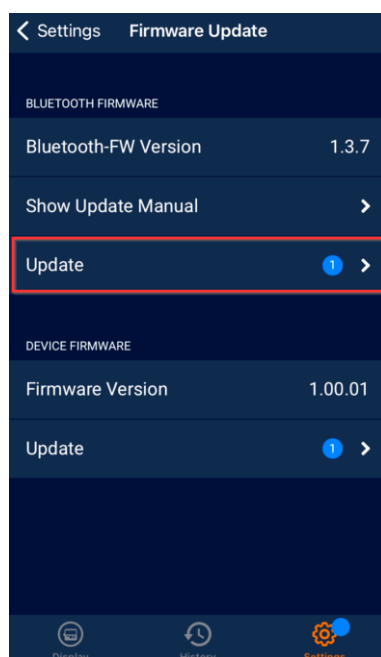
HCT mobile App is open and the device is connected with the HCT mobile App.



- Click on the **connected device** and open the **“Settings”** tab.
- Click on **“Firmware Update”**.

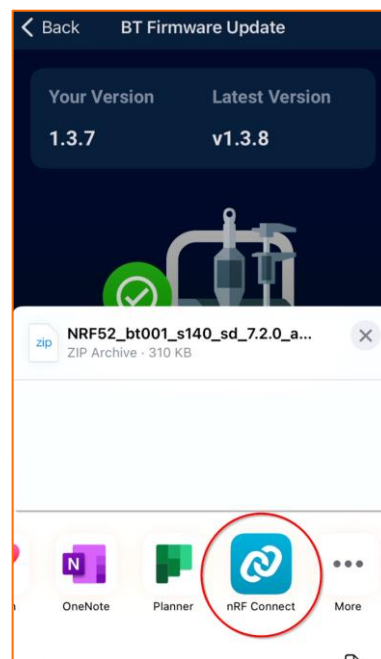
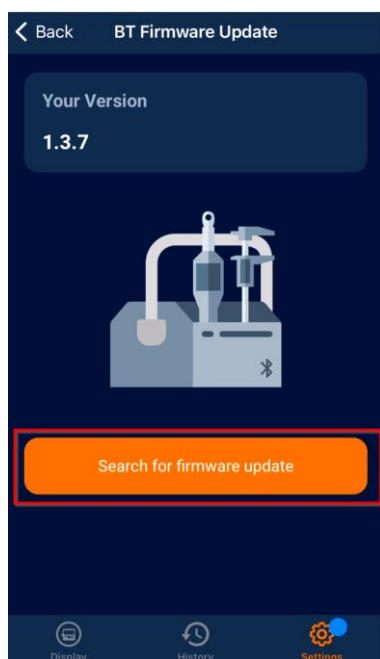


- Click on **Bluetooth Firmware “Update”**.

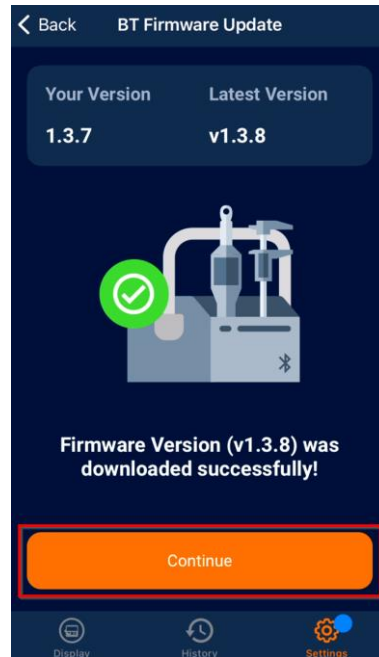
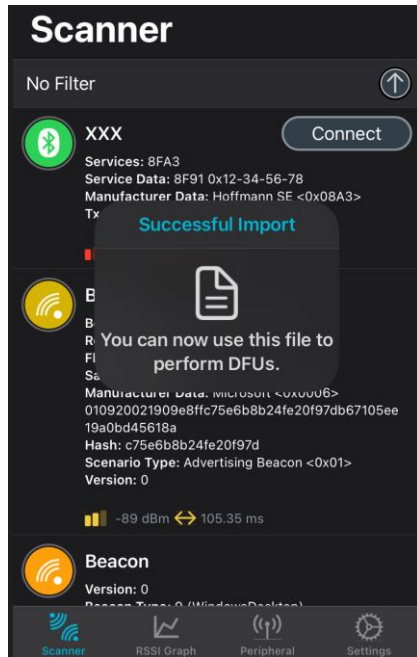


- Click on **“Search for firmware update”**.
- Select **“nRF Connect”** in the pop-up window.

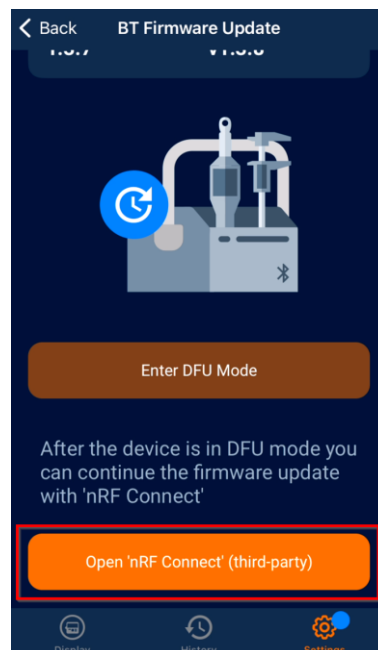
**Info:** If the nRF Connect Symbol is not listed in the preselection, please click on “More”.



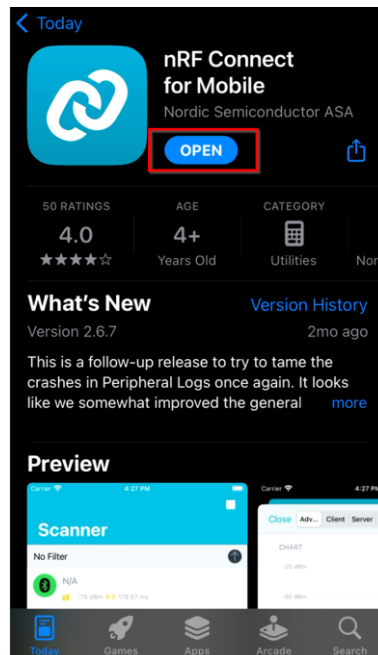
- After the nRF symbol was clicked, the **nRF Connect App** opens automatically.
- **Switch back to HCT App** and click on **“Continue”**.



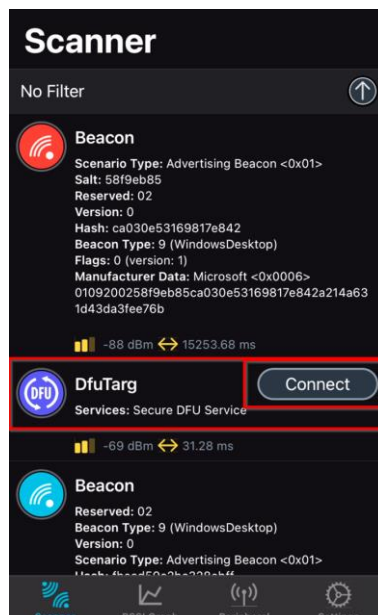
- Click on **“Enter DFU Mode”**.  
***Note:** Only possible to update one device at a time.  
Preferably act quickly (on the first 30 seconds after device was set to DFU Mode) to avoid any problems.*
- Wait until **upper button** is fading and **lower button** is colored in bright orange.
- Click on **“Open nRF Connect (third-party)”**.



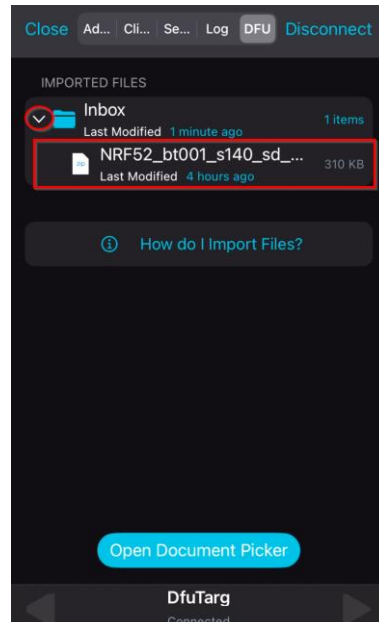
- The App Store with nRF Connect for Mobile opens automatically.
- Click on **“Open”**.



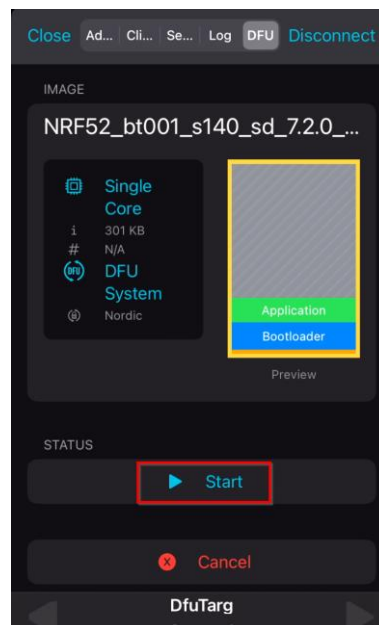
- In nRF Connect App, the HCT device should now be displayed as **“DfuTarg”**.
  - Click on **“Connect”** next to DfuTarg.
- Info:** If "DfuTarg" is **not displayed**, please **refresh** the screen by **swiping downwards**.
- Note:** Only possible to update one device at a time.
- Preferably act quickly (on the first 30 seconds after device was set to DFU Mode) to avoid any problems.*



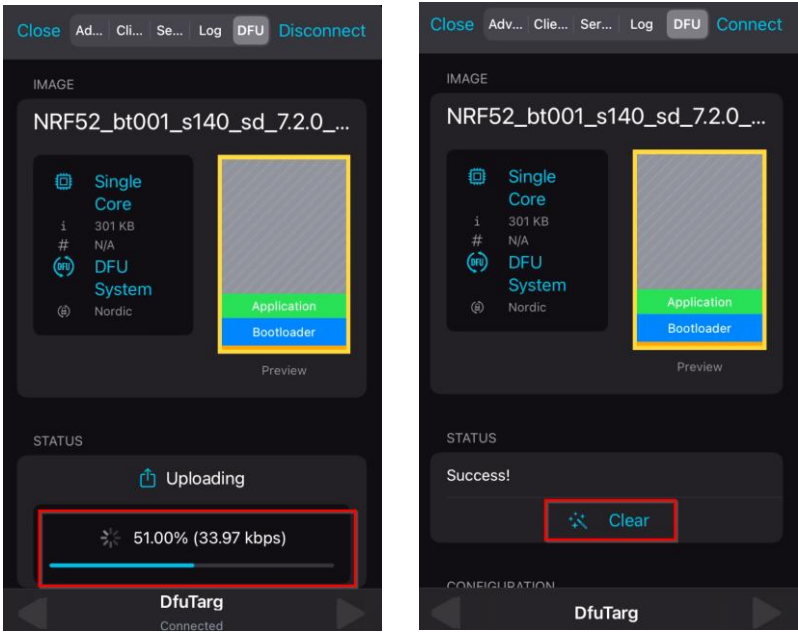
- **Open** the drop-down of “Inbox” folder.
- **Select** the **Zip** file for your Bluetooth module firmware.  
**Attention:** Make sure the correct ZIP file is selected! To prevent selecting the wrong file, save only the required document on the mobile device.



- **Click** on “**Start**”.



- **Wait** for the update to complete and **DON'T** close the applications or turn off any of the devices in use.
- Once the update is done, **select “Clear”**.

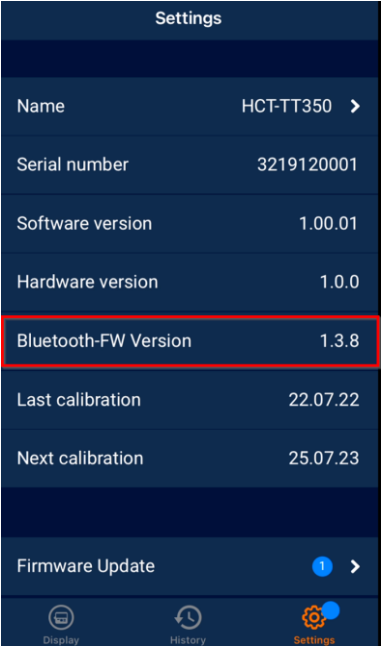


- After the update has been successfully completed, please **restart** the **HCT App** and the **HCT device**.
- To check the installed Bluetooth-Firmware version, open the menu → “info” on the Torque Tester device **or** connect with HCT mobile App and select “Settings” tab.

Info menu -  
Garant Torque Tester HCT



Setting tab –  
HCT mobile App



Update process successfully finished.

## 5 Bluetooth Module Firmware Update – Android

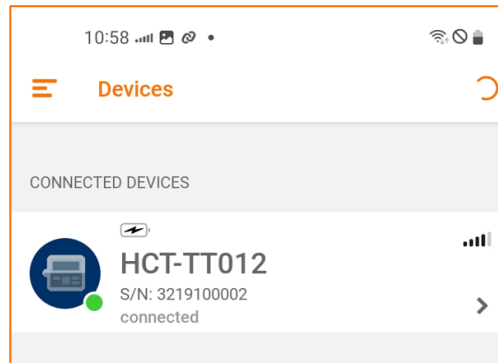
**Note:** If the Bluetooth connection or the update process is interrupted during the following steps, please restart the HCT device and the HCT mobile App and repeat the procedure.

**Preconditions:**

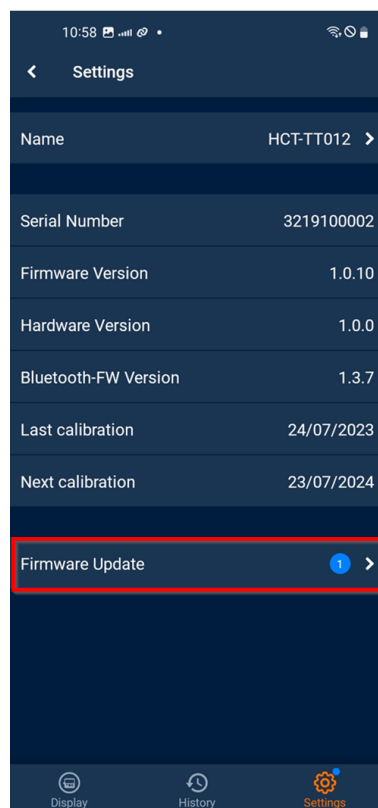
HCT mobile App Version 3.5.0 or higher is installed.

nRF Connect App is installed.

HCT mobile App is open and the device is connected with the HCT mobile App.

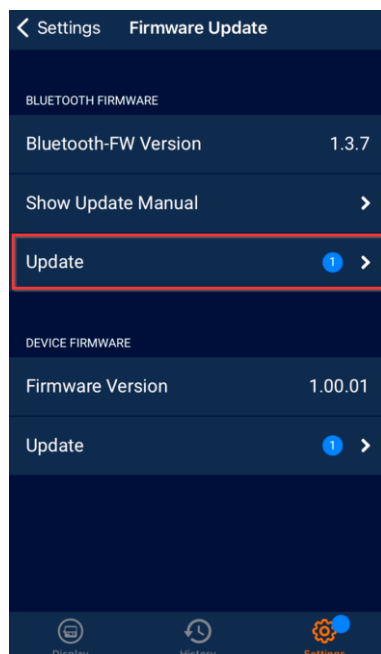


- Click on the **connected device** and open the **“Settings”** tab.
- Click on **“Firmware Update”**.

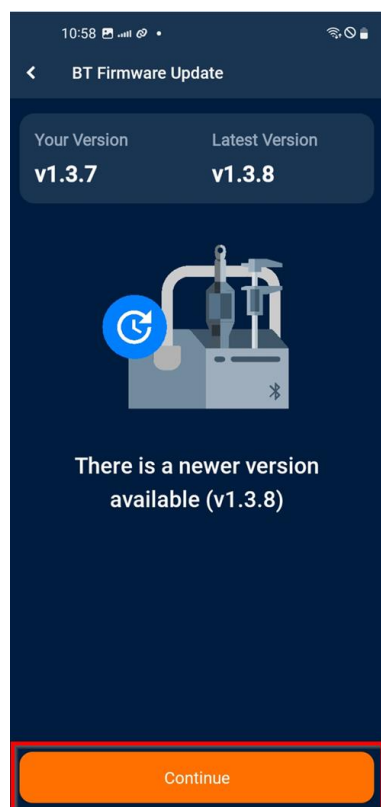




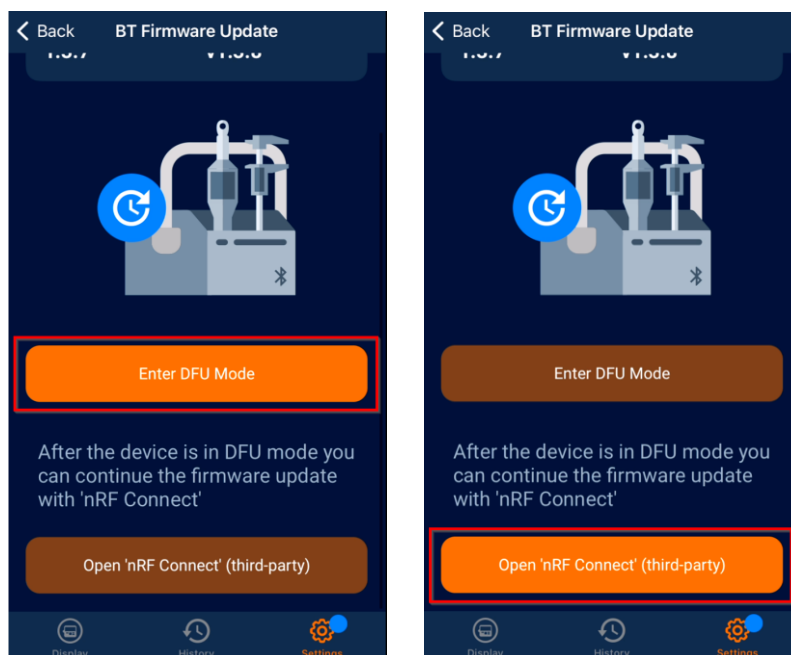
- Click on **Bluetooth Firmware “Update”**.



- (Click on **“Search for firmware update”**.) *Not needed for some devices.*
- Click on **“Continue”**.



- Click on **“Enter DFU Mode”**.  
**Note:** Only possible to update one device at a time.  
*Preferably act quickly (on the first 30 seconds after device was set to DFU Mode) to avoid any problems.*
- Wait until **upper button** is fading and **lower button** is colored in bright orange.
- Click on **“Open nRF Connect (third-party)”**.

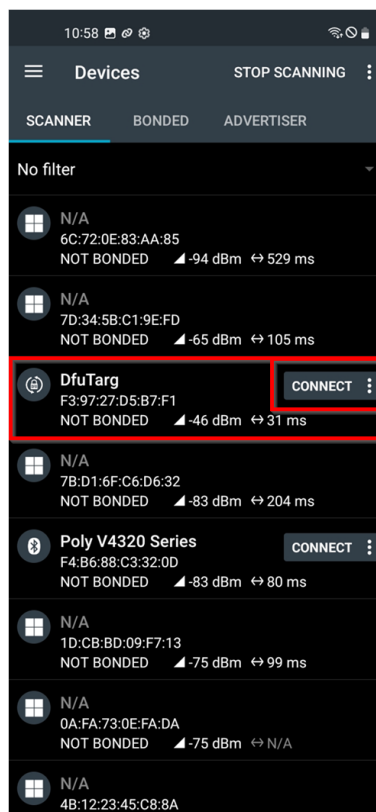


- The nRF Connect App opens automatically.
- In **nRF Connect App**, the HCT device should now be displayed as **"DfuTarg"**.
- Click on **"Connect"** next to DfuTarg.

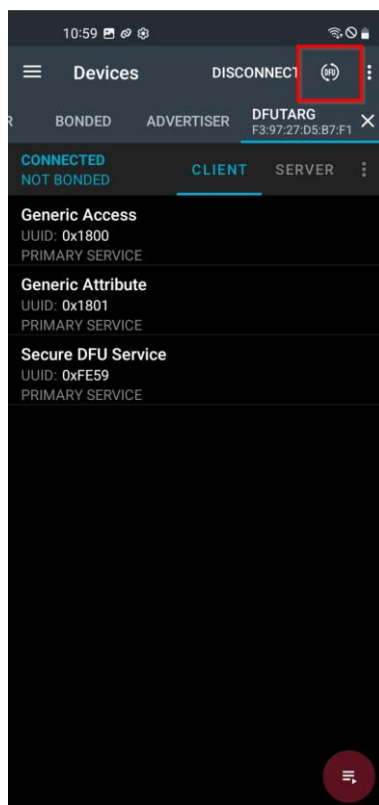
**Info:** If "DfuTarg" is **not displayed**, please **refresh** the screen by **swiping downwards**.

**Note:** Only possible to update one device at a time.

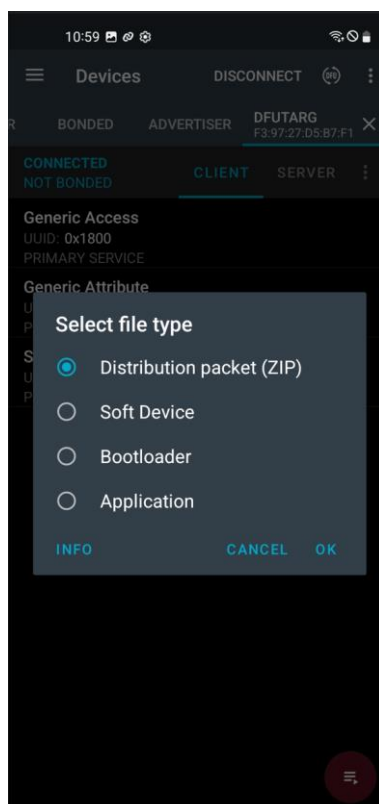
*Preferably act quickly (on the first 30 seconds after device was set to DFU Mode) to avoid any problems.*



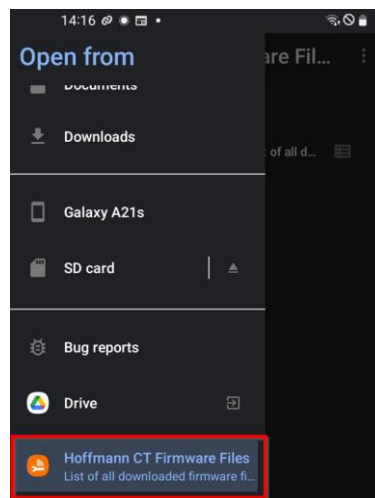
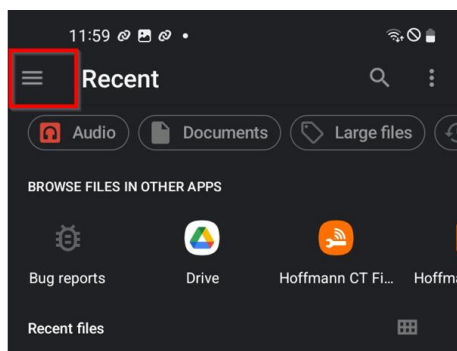
- Click on the **DFU icon** in the top right corner.



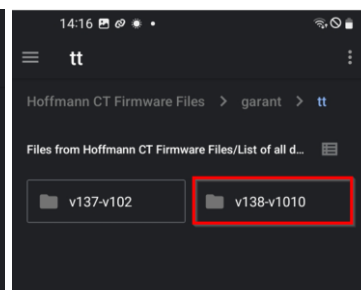
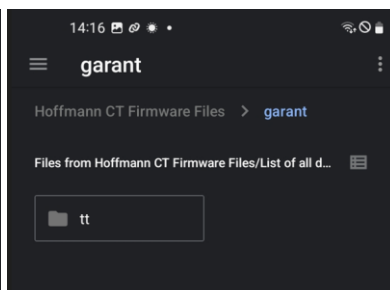
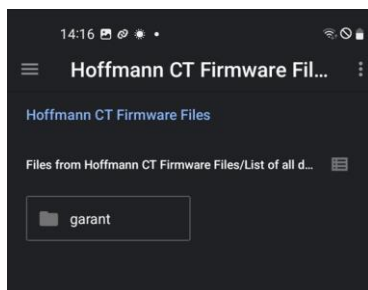
- Choose the option **Distribution packet (ZIP)** and click "OK".



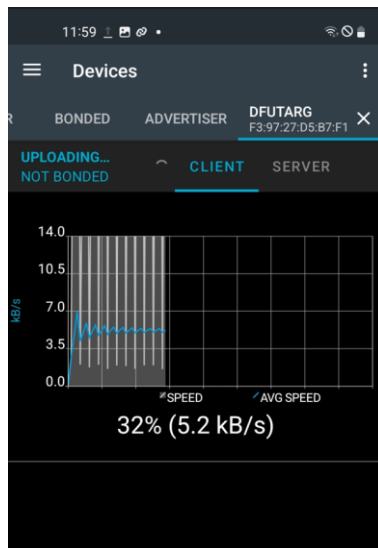
- Click on the **menu-symbol** in the **top left corner**.
- Select folder **“Hoffmann CT Firmware Files”**.



- Select device **folder** → “garant” → “tt”, for torque tester.  
OR “HOLEX” → “DI” for Dial Indicator or “DC” for Digital Caliper”.
- Select the zip file of the **latest Bluetooth-firmware (bt\_firmware...)** to start the update.  
**Attention:** Make sure the correct ZIP file is selected! To prevent selecting the wrong file, **save only the required document on the mobile device**.



- **Wait** for the update to complete and **DON'T** close the applications or turn off any of the devices in use.

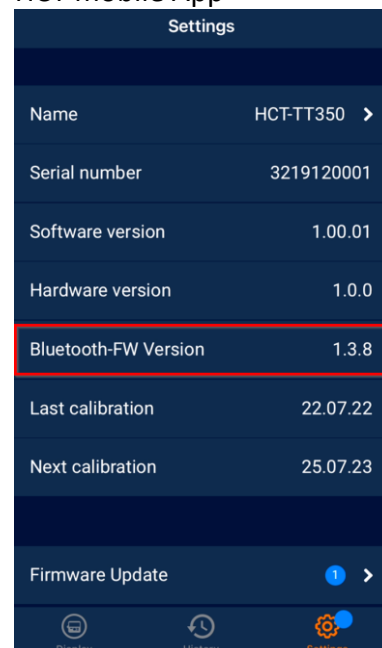


- After the update has been successfully completed, please **restart** the **HCT App** and the **HCT device**.
- To check the installed Bluetooth-Firmware version, open the menu → “info” on the Torque Tester device **or** connect with HCT mobile App and select “Settings” tab.

Info menu -  
Garant Torque Tester HCT



Setting tab –  
HCT mobile App



Update process successfully finished.

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