



## BLUETOOTH firmware update version jan 2024

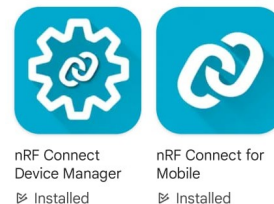
<p><b>TAGS:</b> single core nRF52840 BT-name: 'AIRTT', 'AIRBT' (ball-tag)</p>	<p><b>ANCHORS:</b> dual core nRF5340 BT-name: 'AIRAA'</p>
	
<p>Firmware filename: <b>52_122_signed.bin</b></p>	<p>Firmware filename: <b>53_122_signed.bin</b></p>

**Prepare:** charge the device before updating and/or keep the USB-charge-cable connected during the update process.

### Step 1:

use mobile app **nRF connect** for mobile ([iOS](#), [android](#))

Apps



*Alternative: nRF Device Firmware Update*

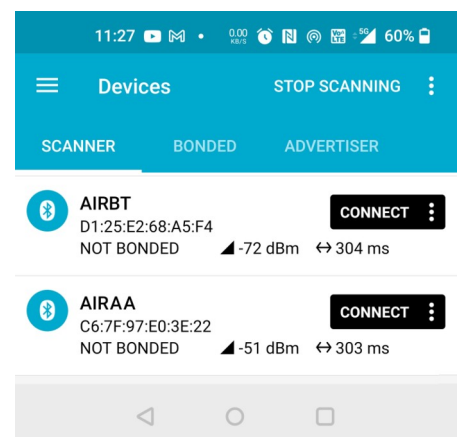
<https://www.nordicsemi.com/Products/Development-tools/nRF-Device-Firmware-Update>

### Step 2:

connect to a device  
select from the list of devices shown in app

**tags** have 'T' in the device name and use single core nRF52840 chipset  
Board type Tag 'T' with UWB network role Tag 'T' **AIRTT**  
Board type Ball 'B' with UWB network role Tag 'T' **AIRBT**  
Board type '**generic**' role Tag 'T' **AIRTLS**

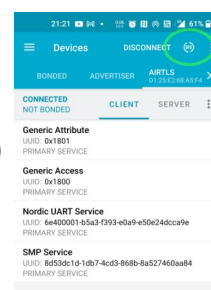
**anchors** have 'A' in the device name and use dual core nRF5340 chipset  
Board type Anchor 'A' with UWB network role Anchor 'A' **AIRAA**  
Board type Anchor 'F' with UWB network role Anchor 'A' **AIRFA**  
Board type HornAnchor 'H', UWB network role Anchor 'A' **AIRHA**  
Board type LineAnchor 'L' with UWB network role Anchor 'A' **AIRLA**  
Board type SolarPowered 'P', UWB network role Anchor 'A' **AIRPA**



The app also shows the bluetooth signal strength. In the example -51 dBm for the anchor and a weaker signal of -72dBm for the tag 'AIRBT' mainly because of a larger distance between the phone and device. The signal strength gets weaker when the phone is a few meters away from the device compared to close by. The phone can be 10+ meter away and still update the device. In case of packet loss the process takes longer.

### Step 3:

Use the 'connect' button to connect  
After connection click on button 'dfu' (in the header)



## Step 4:

Select file (.bin) from filesystem on the phone

Make sure the selected file is for the correct board  
2 chipsets are used:

Single core and dual core controller chips

nRF52840 single core used in **tags** '52'  
nRF5340 dual core used in **anchors** '53'

File names start with '52' or '53'

52\_122\_signed.bin

53\_122\_signed.bin

122 refers to firmware version 1.2.2.

**tags** have 'T' in the device name and use single core nRF52840 chipset

Board type Tag 'T' with UWB network role Tag 'T' **AIRTT**

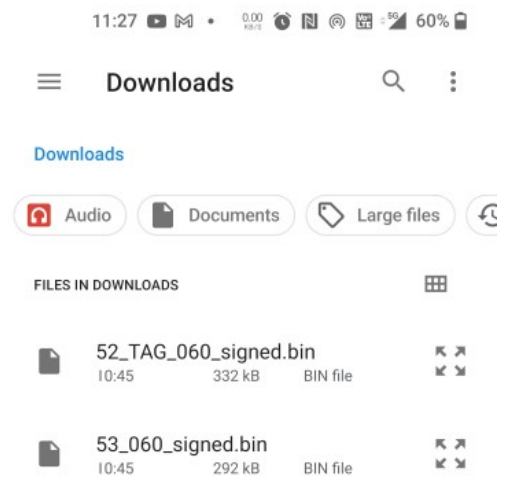
Board type Ball 'B' with UWB network role Tag 'T' **AIRBT**

**anchors** have 'A' in the device name and use dual core nRF5340 chipset

Board type Anchor 'A' with UWB network role Anchor 'A' **AIRAA**

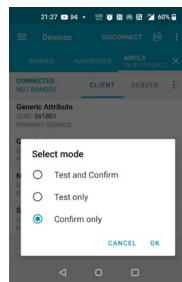
Board type HornAnchor 'H' with UWB network role Anchor 'A' **AIRHA**

Board type WallSocket mount 'L' with UWB network role Anchor 'A' **AIRLA**



## Step 5:

Update mode  
'confirm only'

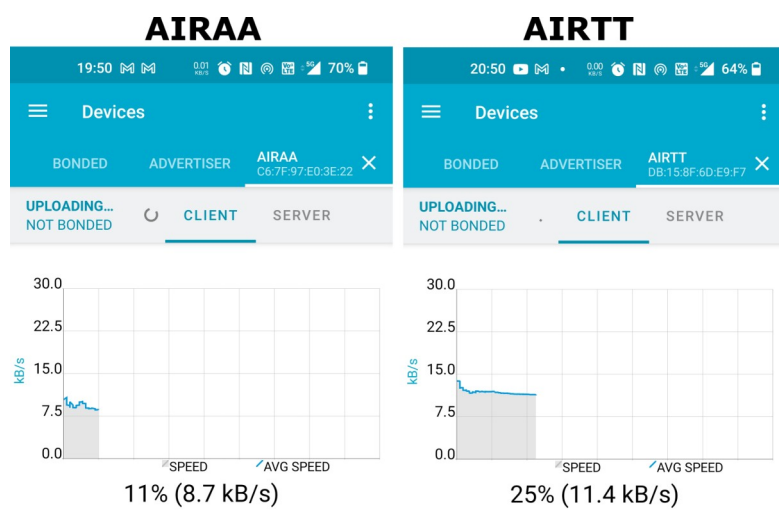


## Step 6:

Transfer starts

Takes about 15 sec

After checking the file  
on the board in about  
10 seconds the boards  
will restart automatically



When a (USB) charge cable is connected to the tag or a ball. The board will first perform a hardware reset. For FWOA (Firmware over the air) this is not needed.

done