

# How to update firmware

To manually flash firmware using ST DFUSE tools, get a copy of ST DFUSE tools. Search for [STSW-STM32080](#)

## Step 1

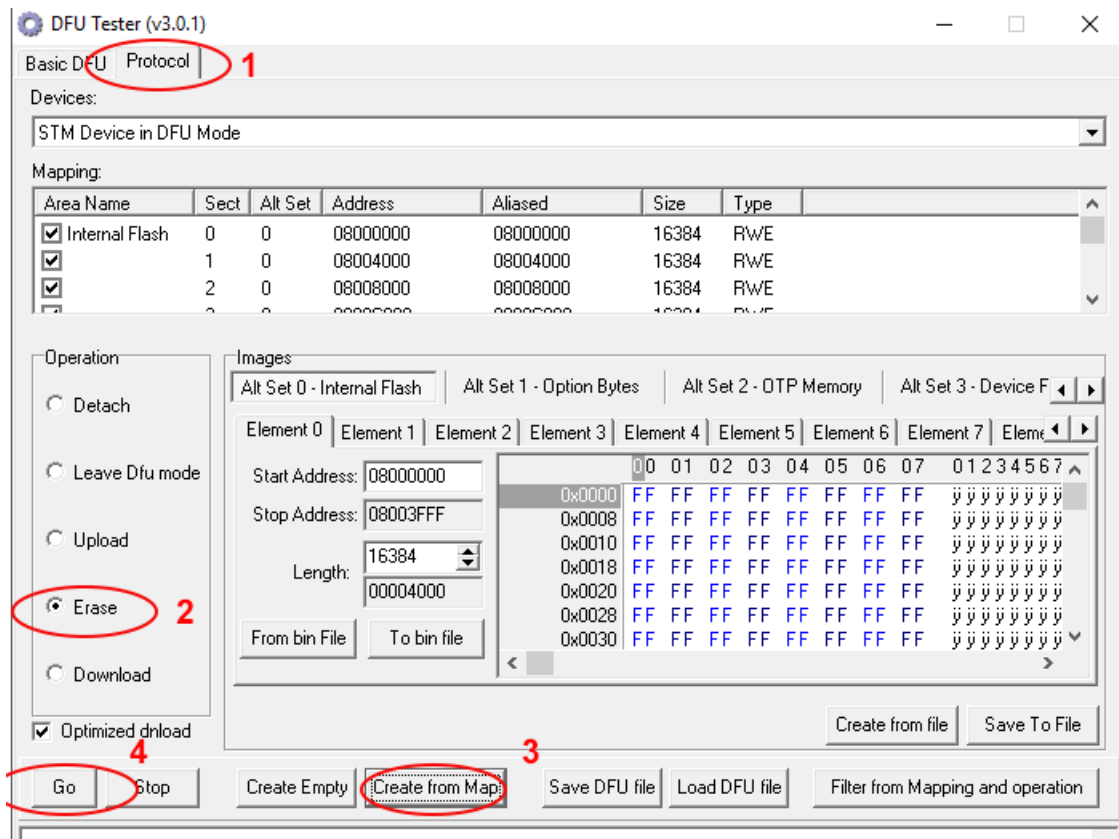
Detach your Netduino

Press and hold your Netduino's pushbutton while plugging it in via USB; this will put it in bootloader mode.

Erase the firmware on your Netduino using the

### STDFU Tester application

- a. Select the "Protocol" tab
- b. Press the "Create from Map" button
- c. Select the "Erase" radio button option
- d. Press the "Go" button
- e. Wait for the erase process to complete



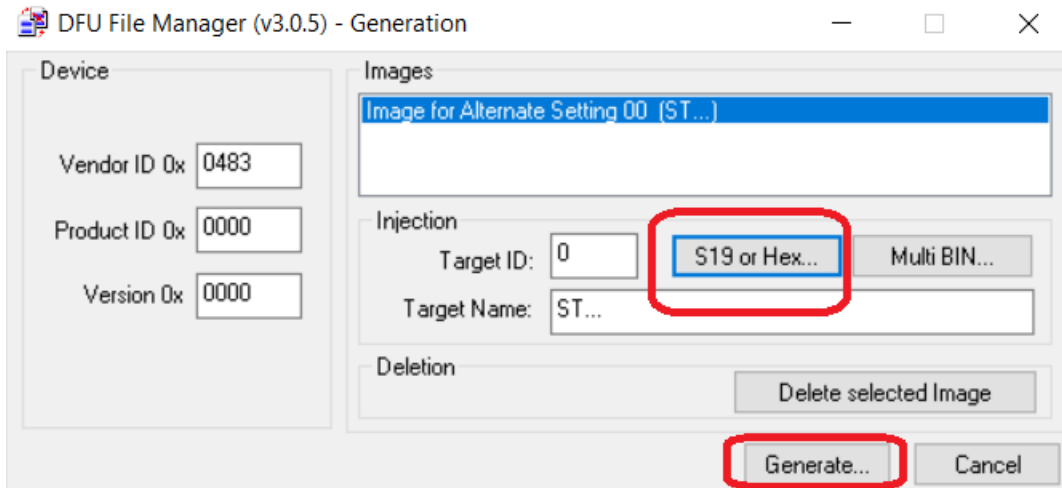
## Step 2

To create the DFU tinybooter.dfu file:

- Run "DFU File Manager" (from the ST DFU tools)
- Select "I want to GENERATE a DFU file" and press OK.
- Click "S19 or HEX..." and then select one of the firmware files in Netduino Update's respective Firmware folder.
- Click the "generate" button to generate the DFU file

**Important Note:** If you have a .hex file rename it to .S19

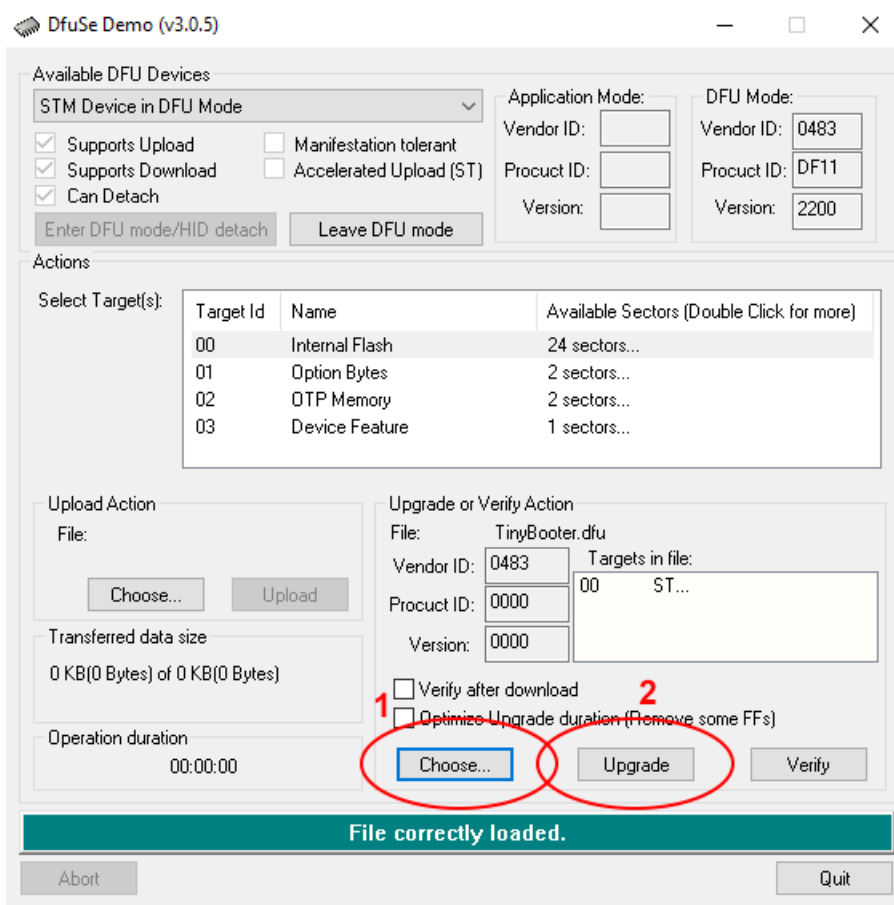
Example: Tinybooter.hex rename to Tinybooter.s19



### Step 3

#### Using the **DFUSE Demo Application**

- a. Load TinyBooter
- b. With board still in DFU mode
- c. Click bottom right Choose – select tinybooter.dfu
- d. Click Upgrade



## Step 4

Reboot

Open MFDeploy

Select USB

Bottom Browse – Select both config files

Deploy

Note: .s19 files are not shown in MFDeploy enter “\*.\*” as the File Name: and click the Open button. The .s19 files will be displayed

Target Options Plug-in Help

Device

Serial 

Ping

Erase

☐ Use SSL

Certificate:

Browse...

Password:

Image File

C:\Users\David16001\Documents\Firmware\Netduino2\_4\_3\_2\_0\ER\_CONFIG.s19; C:\Users\David16001\Documents\Firmware\Netduino2\_4\_3\_2\_0\ER\_FLASH.s19

Browse...

Deploy

Name	File	Base Address	Size	Time Stamp
<input checked="" type="checkbox"/> ER_CONFIG.s19	C:\Users\David16001\Documents\Firmware\N...	0x0800c000	0x000009...	9/22/2017 11:39:20 AM
<input checked="" type="checkbox"/> ER_FLASH.s19	C:\Users\David16001\Documents\Firmware\N...	0x08040000	0x0000530...	9/22/2017 11:39:21 AM