

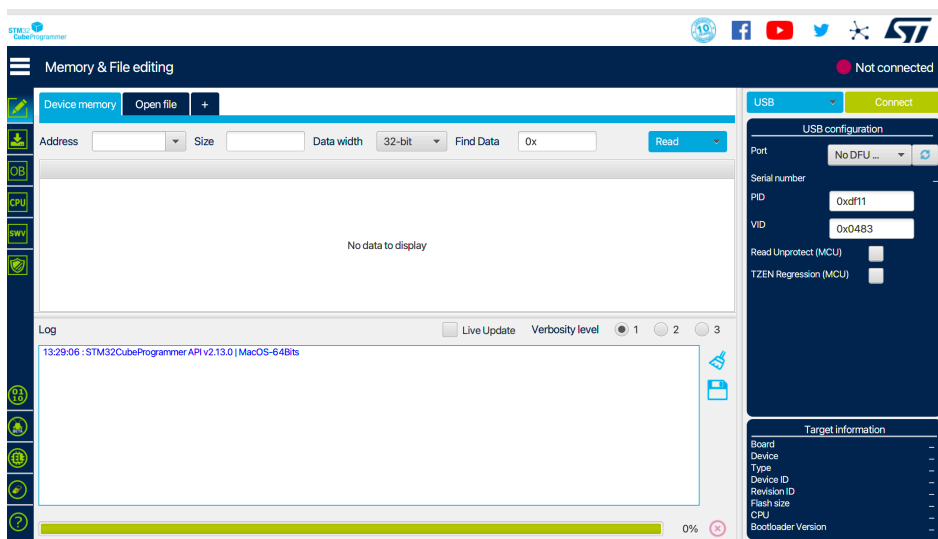
## How to update the Wolf STM32 firmware

**PLEASE NOTE THAT ALTHOUGH I USE THIS PROCEDURE ON MY WOLF I CANNOT AND WILL NOT ASSUME ANY LIABILITY OR RESPONSIBILITY FOR ANY DAMAGE CAUSED BY USE OF THIS PROCEDURE DUE TO USER NOT UNDERSTANDING OR FOLLOWING THESE DIRECTIONS, NOR ANY INACCURACIES IN THIS PROCEDURE MIGHT CONTAIN. THE USER OF THIS PROCEDURE ASSUMES ALL RESPONSIBILITY FOR USING IT.**

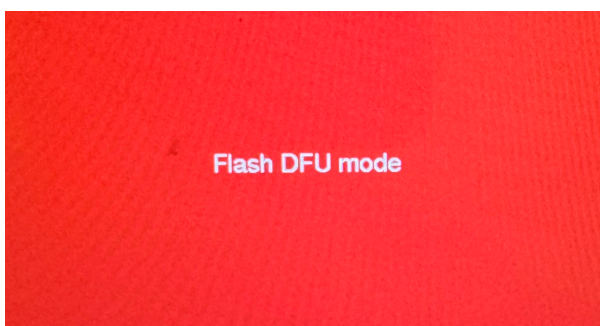
Please read all these steps first before proceeding so you understand what is entailed.

You will likely need two hands to do this.

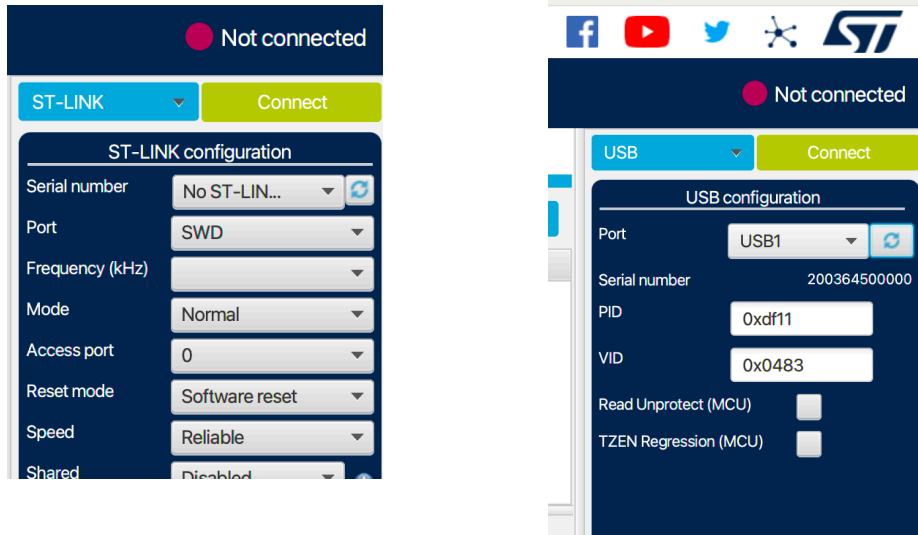
1. Obtain, load and run STM32CubeProgrammer from [stmicroelectronics.com](http://stmicroelectronics.com)
2. Obtain and download the STM32 firmware to your computer from **Github** or **Dropbox**. For the 20W or 100W Wolf use only the STM32 file **WOLF-RA8875\_GT911.bin**. Note that the file name is same for all version levels. You should place it in a folder on your computer named for the version level otherwise you may overwrite the last version as it will have the same name. You can obtain the file at URLs below.  
<https://github.com/XGudron/UA3REO-DDC-Transceiver> Or  
[https://www.dropbox.com/scl/fo/0c7npqrolmftwuobvd43k/AARYCpylQwjPCI3nbEIE1sY/STM32?e=1&fbclid=IwAR2CM4Em\\_e3R-3Qvg20M0A4GkcERzUTHN7KXMFuYsl6hPWeflHoW\\_mBSAK0&rkey=b061w6svrwnf8wmv0qycdua2o&subfolder\\_nav\\_tracking=1&dl=0](https://www.dropbox.com/scl/fo/0c7npqrolmftwuobvd43k/AARYCpylQwjPCI3nbEIE1sY/STM32?e=1&fbclid=IwAR2CM4Em_e3R-3Qvg20M0A4GkcERzUTHN7KXMFuYsl6hPWeflHoW_mBSAK0&rkey=b061w6svrwnf8wmv0qycdua2o&subfolder_nav_tracking=1&dl=0)
3. Connect USB cable to Wolf from computer.
4. On your Wolf go to Menu item **SD Card** and **Export** the radio's current **Settings** and **Calibration** to the Wolf's SD Card. This allows you to be able to restore your personalized settings anytime in the future.
5. Your computer screen should look similar to below to begin.



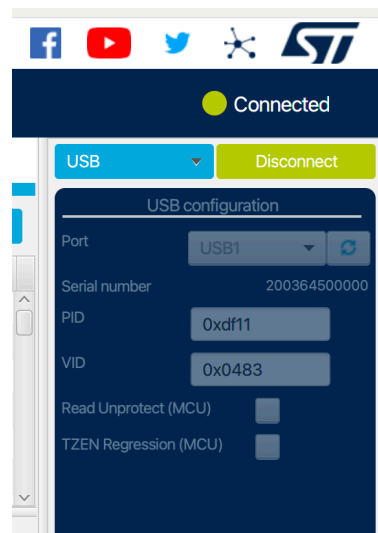
6. In MENU on Wolf press **DFU MODE** - if Wolf screen goes blank **PRESS** and **HOLD** Power Button.  
**IMPORTANT!!! KEEP POWER BUTTON PRESSED DURING WHOLE PROCEDURE! DON'T LET IT GO! WOLF SCREEN SHOULD STAY RED**



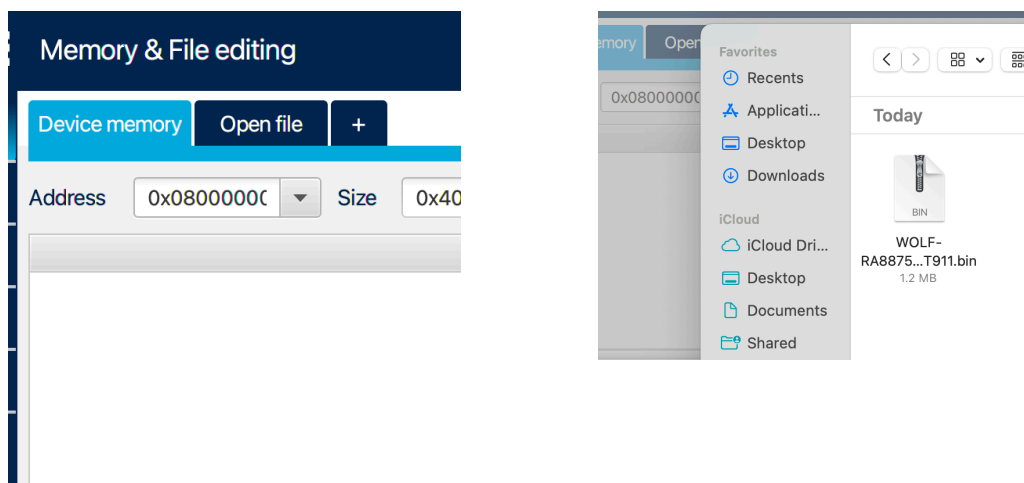
7. On right side of STM32 Programmer screen pull down left button to **USB** then pull down on Port button - **No DFU** should change to **USB1** or similar.



8. Click the Connect button and Not Connected should change to **Connected**.



9. Click **Open file** and navigate to the STM32 firmware on your computer, select it and load.



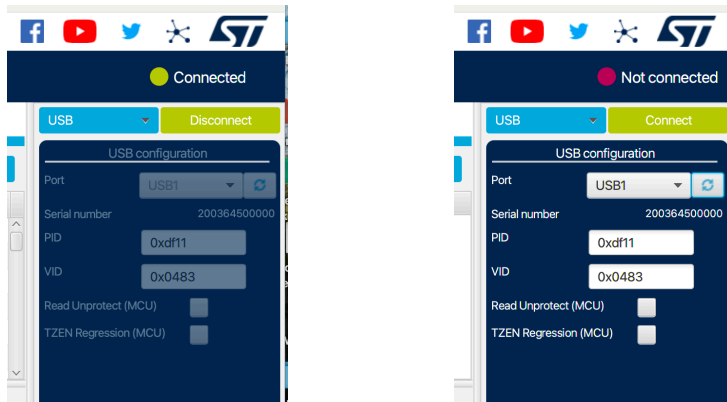
Memory & File editing

Device memory WOLF-RA8875\_GT911.bin × +

Address 0x0 Size 0x11E414 Data width 32-bit Find Data 0x Download

Address	0	4	8	C	ASCII
0x00000000	20002000	08000479	08047201	0802D121	..y....f...!Ñ..

10. Click the **Download** button and watch the progress bar at bottom. It will take less than a minute to erase the old firmware and load the new firmware into the Wolf.
11. A dialog box will pop-up at completion of the load telling you the file is done loading.
12. Click **OK** to dismiss the dialog box.
13. Then click the **Disconnect** button which will end the link to the Wolf.



14. **NOW YOU CAN LET GO OF THE WOLF POWER BUTTON.** The Wolf will shut down.
15. Restart the Wolf. **It will automatically load default settings and calibration.** You will now need to import your **Settings** and **Calibrations** back from the **SD Card**
16. Menu **SD Card** and **Import Settings frm SD** then select **Import Settings** and then **Import Calibration**. This will reload the Setting and Calibration you saved before you started the update.
17. Congratulations you're done. Note you can go back to any previous firmware using this same procedure if desired.