How to update your Firmware on your Satevis® device

V1.1 / 15.03.2024

Pre-conditions for Firmware Update :

- Battery Power should be powered off
- Your Satevis® device should be connected to your PC through USB –M8 Cable adapter
- STM32 Cube Programmer should be installed on your PC **(you can download it from our FTP access)**

1. Connect your Satevis® device to your PC with the USB/M8 cable adapter provided with it. The M8 plug comes with a positioning notch, insert it with the marking '**Signal =>**' on the top side.
Use the device manager to check which COM PORT is used (enter Device Manager on your search engine).
Satevis® Device integrates the latest CH343 USB Chipset
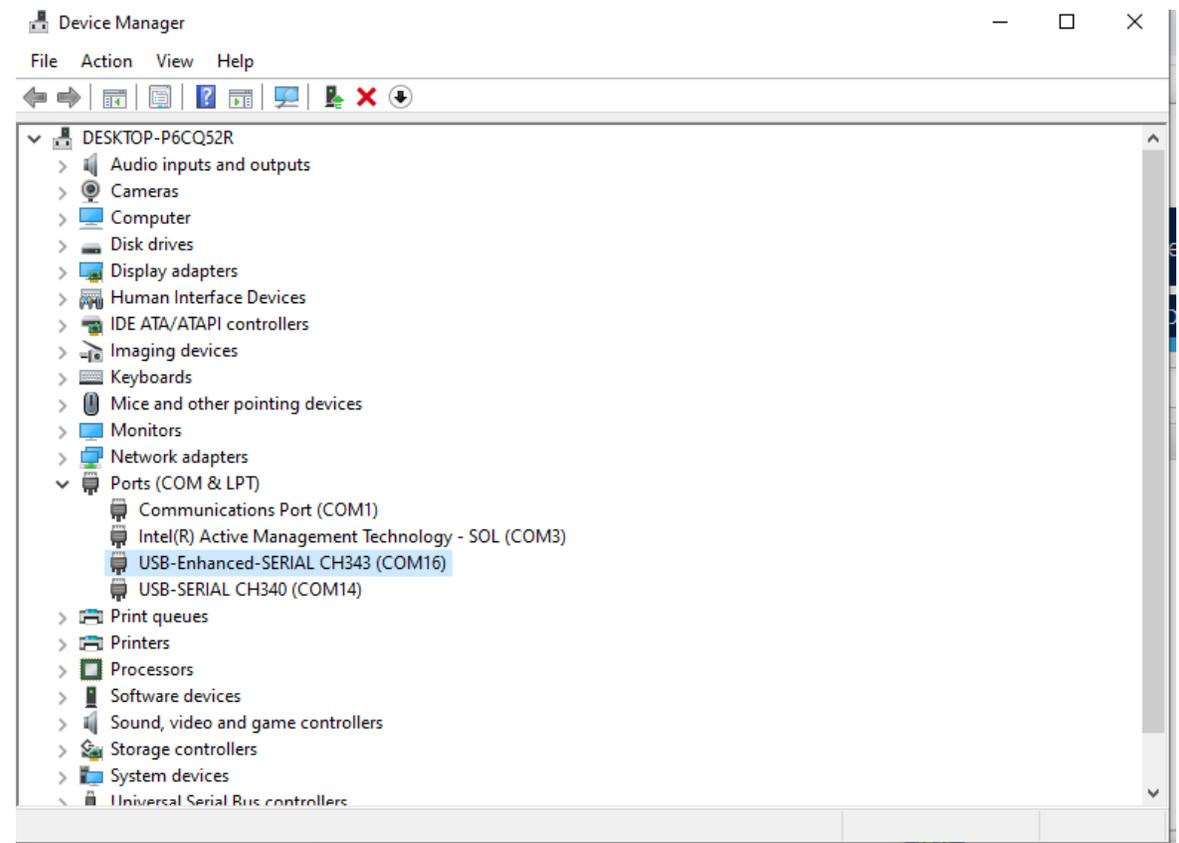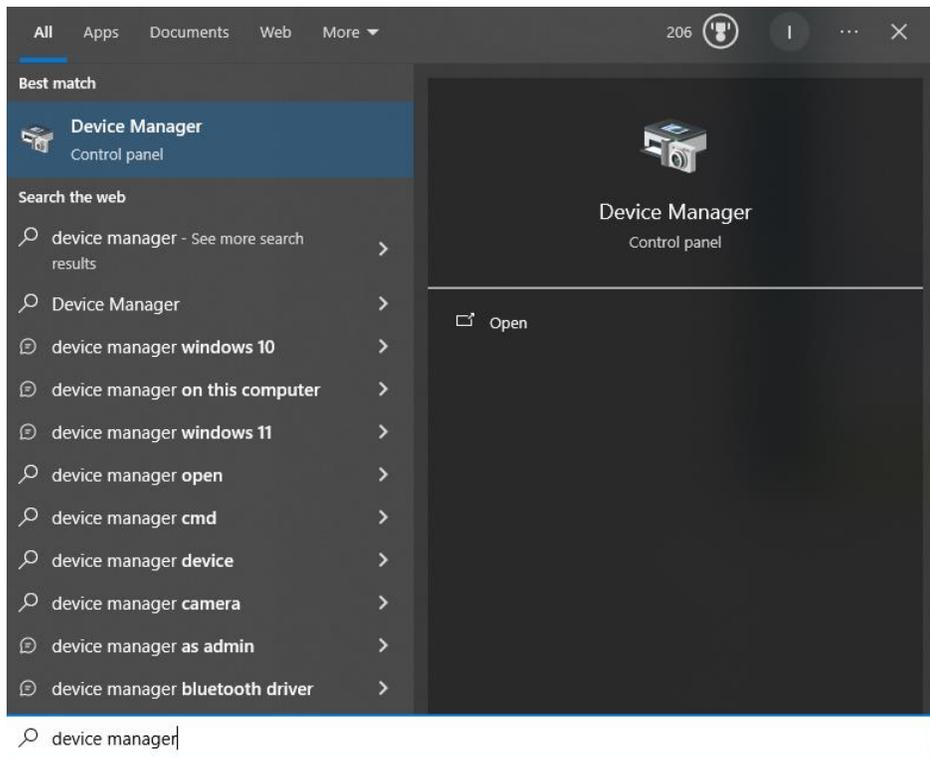
Launch STM32 CubeProgrammer

Click on Erasing and Programming on the menu

Select UART communication from the scroll list
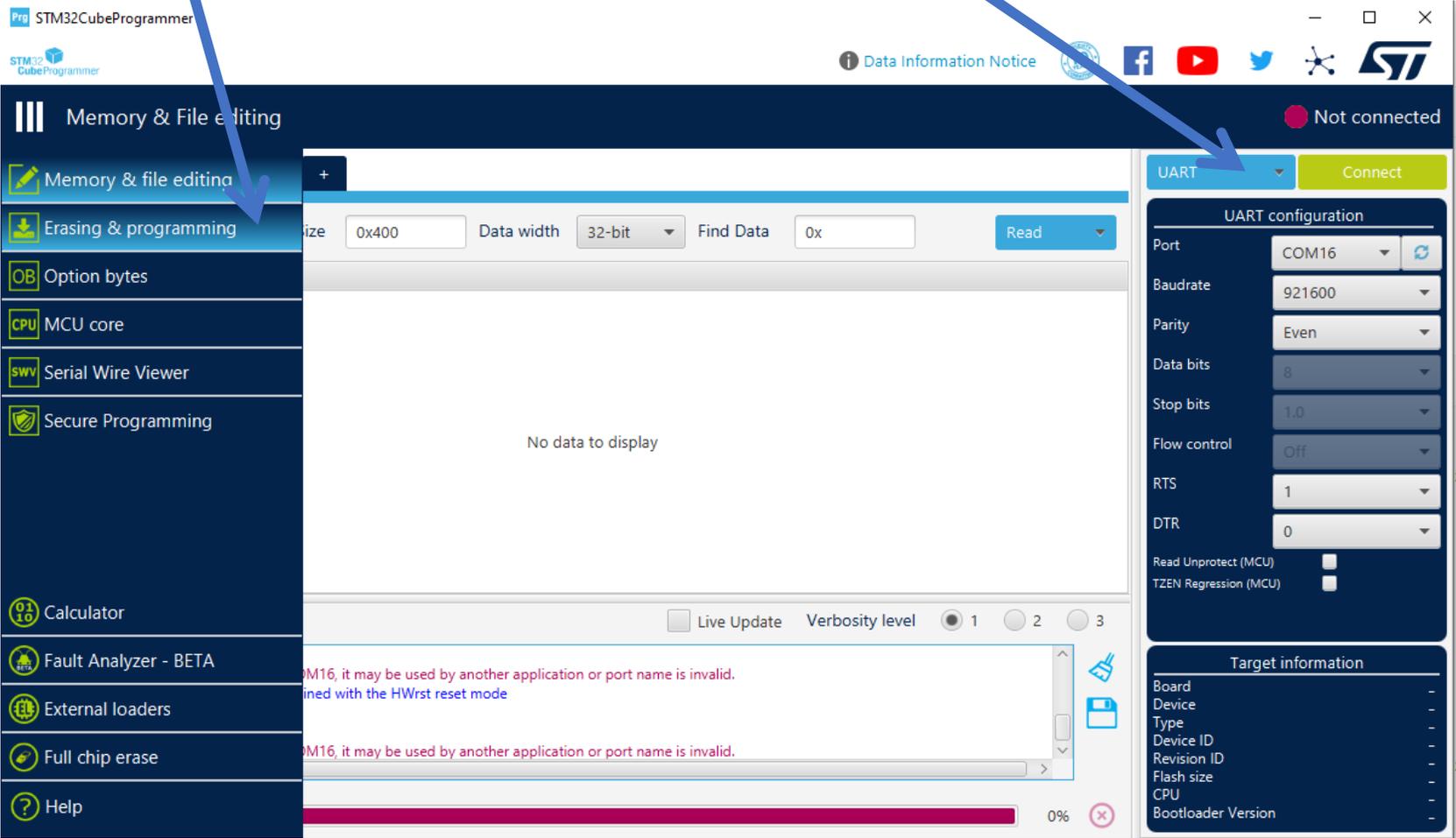
Check these two boxes only

Click on Browse to select your firmware

Select COM Port connected to your device

Select a BaudRate of 921600 bauds

Select Even Parity

Select RTS function

Only Download File should be selected (default settings)

BRING THE **MAGNET** ON HELLO LABEL, KEEP IT FOR **5S** UNTIL THE ACTIVITY LED FLASH IN GREEN, THEN CLICK ON CONNECT

THE BATTERY MUST BE POWER OFF

HELLO !
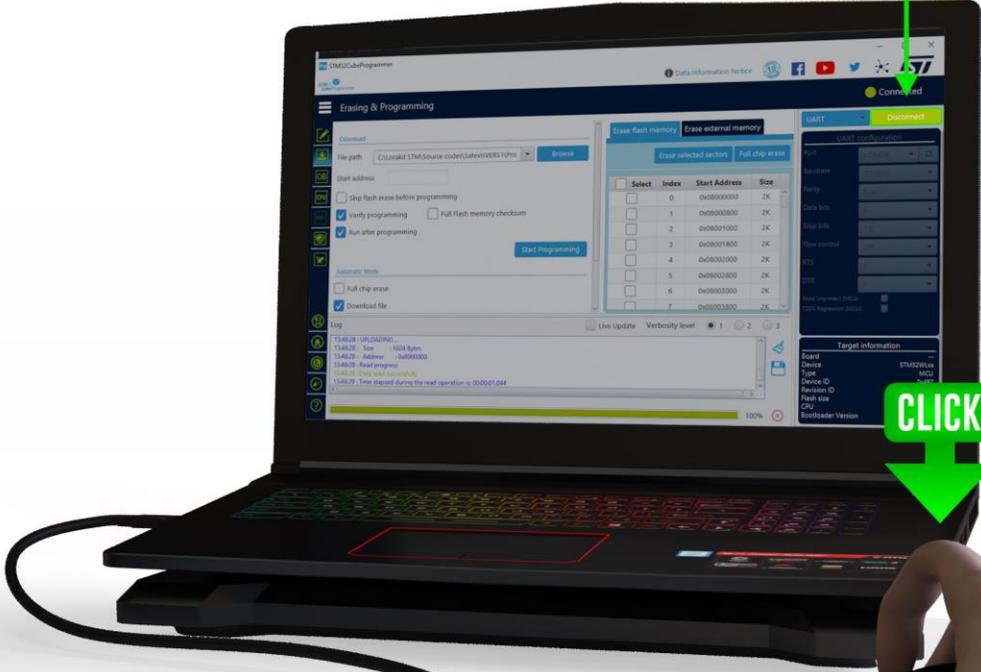
CLICK

Click on connect

The status LED will switch to green color, your Satevis® device is now connected
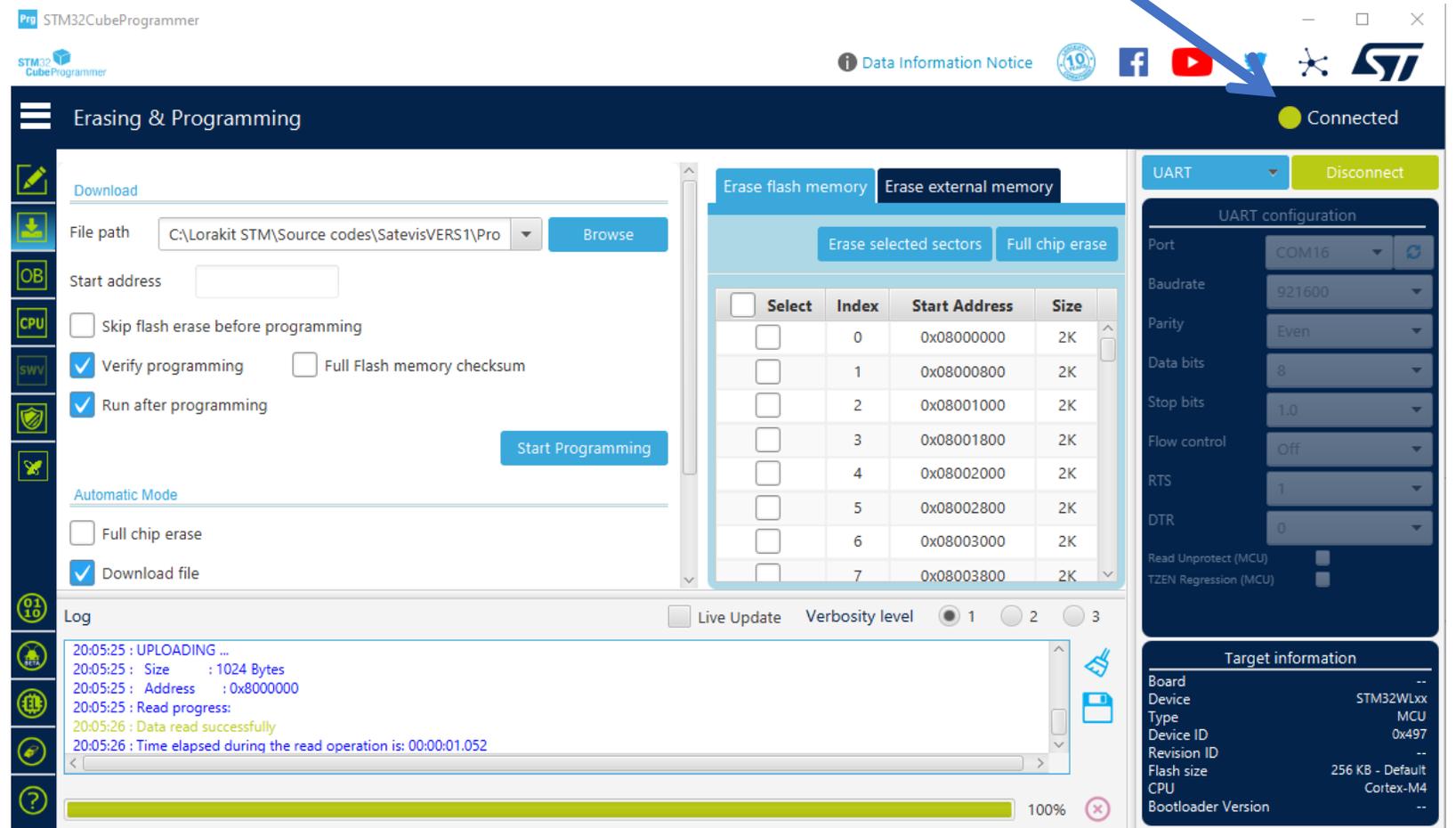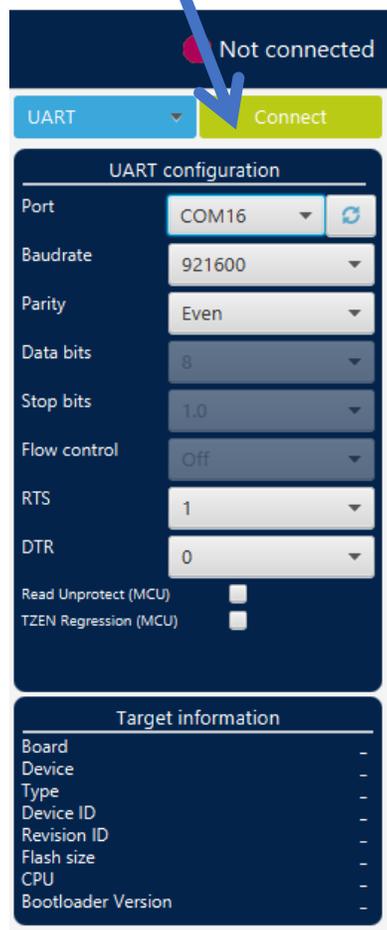
Click on Start Programming

STM32CubeProgrammer

Data Information Notice

Erasing & Programming   ● Connected

Download

File path   C:\Lorakit STM\Source codes\SatevisVERS1\Pro ▼   Browse

Start address

☐ Skip flash erase before programming

☑ Verify programming   ☑ Full Flash memory checksum

☑ Run after programming

                                                    Start Programming

Automatic Mode

☐ Full chip erase

☑ Download file

| Erase flash memory | Erase external memory |

| Erase selected sectors | Full chip erase |

Select	Index	Start Address	Size
☐	0	0x08000000	2K
☐	1	0x08000800	2K
☐	2	0x08001000	2K
☐	3	0x08001800	2K
☐	4	0x08002000	2K
☐	5	0x08002800	2K
☐	6	0x08003000	2K
☐	7	0x08003800	2K

UART   Disconnect

UART configuration

Port   COM16
Baudrate   921600
Parity   Even
Data bits   8
Stop bits   1.0
Flow control   Off
RTS   1
DTR   0

Read Unprotect (MCU)   ☐
TZEN Regression (MCU)   ☐

Log   Live Update   Verbosity level ● 1 ○ 2 ○ 3

21:24:17 : UPLOADING ...
21:24:17 : Size   : 1024 Bytes
21:24:17 : Address   : 0x8000000
21:24:17 : Read progress:
21:24:18 : Data read successfully
21:24:18 : Time elapsed during the read operation is: 00:00:01.051

Target information

Board
Device   STM32WLxx
Type   MCU
Device ID   0x497
Revision ID   --
Flash size   256 KB - Default
CPU   Cortex-M4
Bootloader Version   --

100%

This Pop-up window will appear : **'Start Operation was successful '**
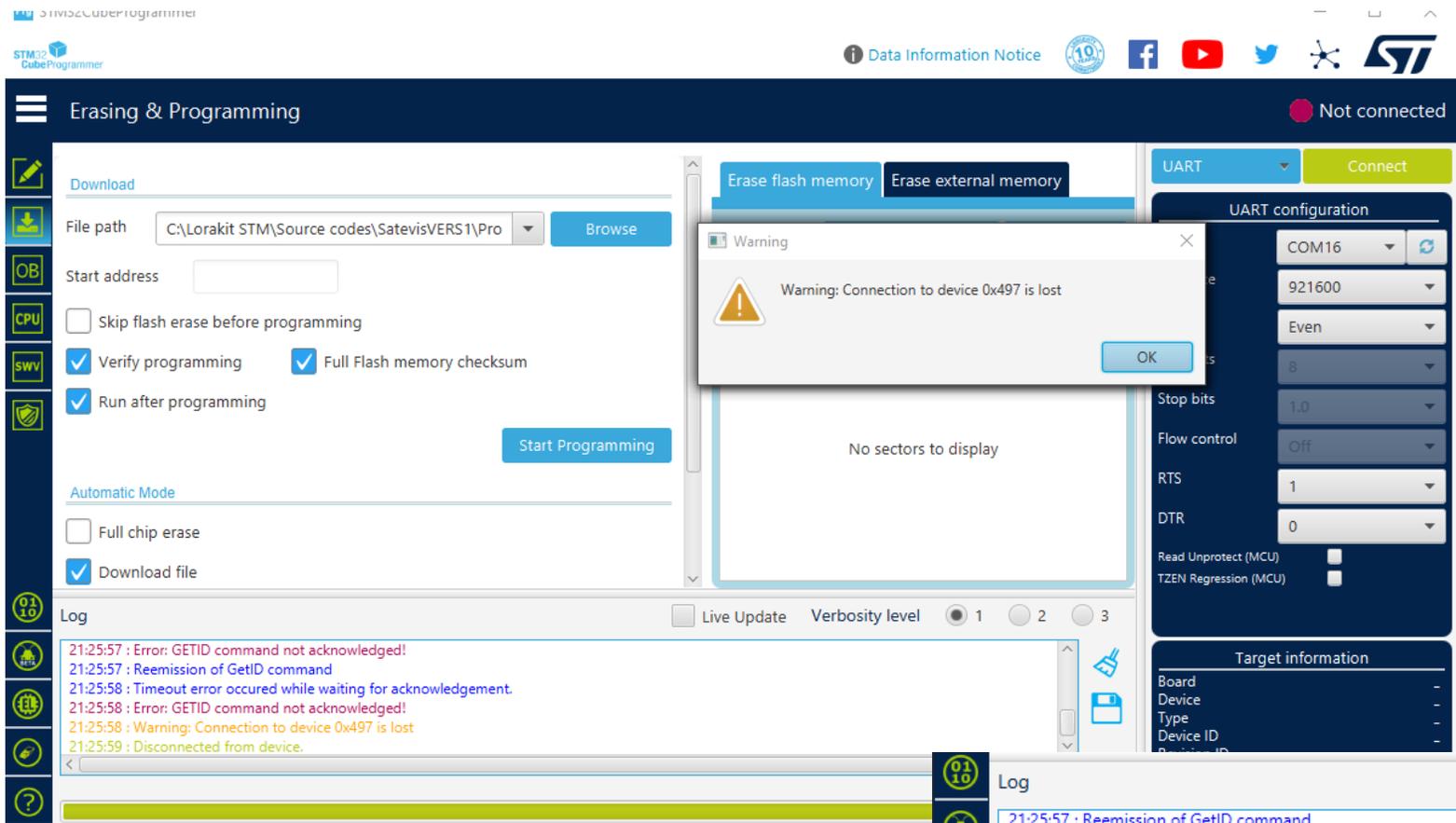
Wait Until the end of device disconnection
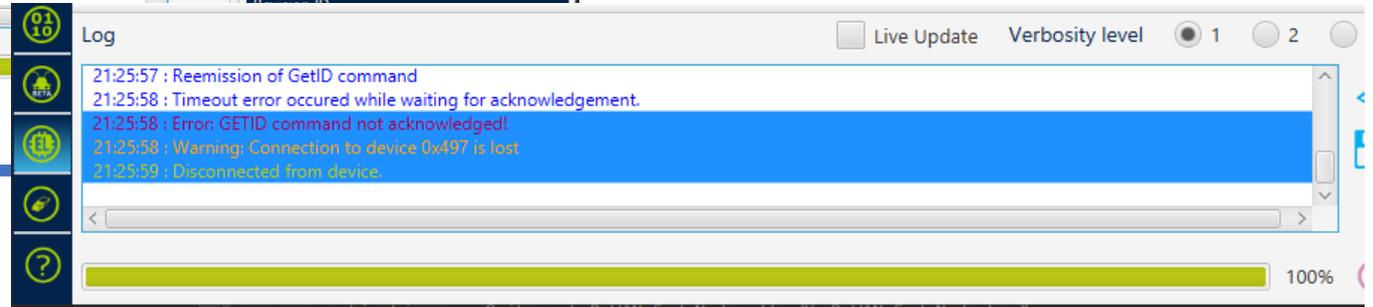
You can disconnect and reconnect your device, it will start to work with a new firmware.

Warning :

If your Satevis® device is accidentally disconnected from the USB during the firmware programming, the electronic board will be corrupted, and you need to use a specific Hardware adapter to program it again. Please contact us to order it.

If you fail to upload a firmware , restart your device and make sure the battery power is off.