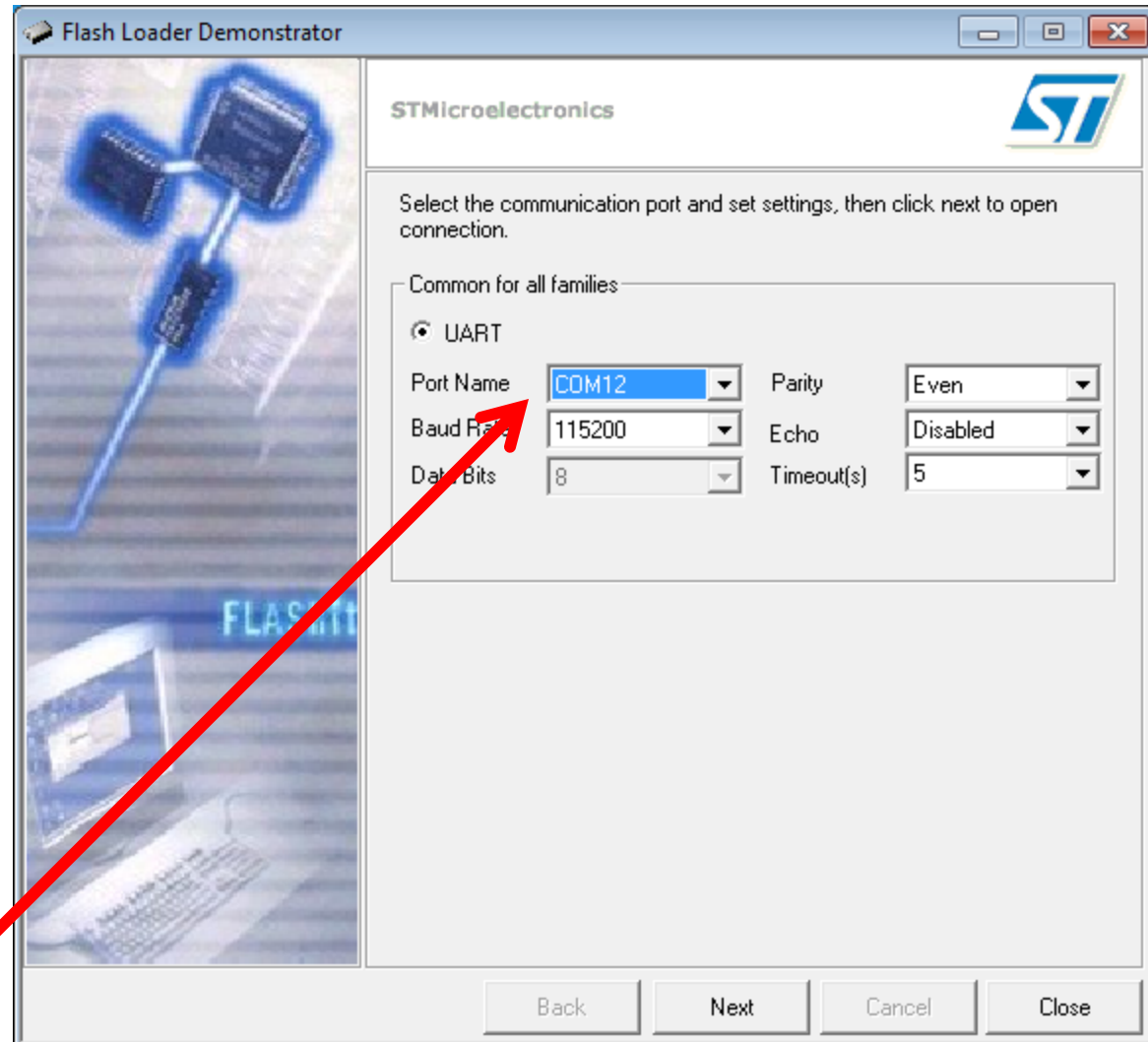


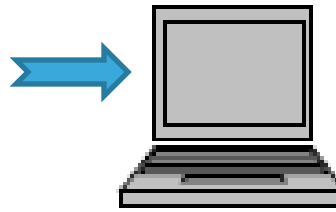
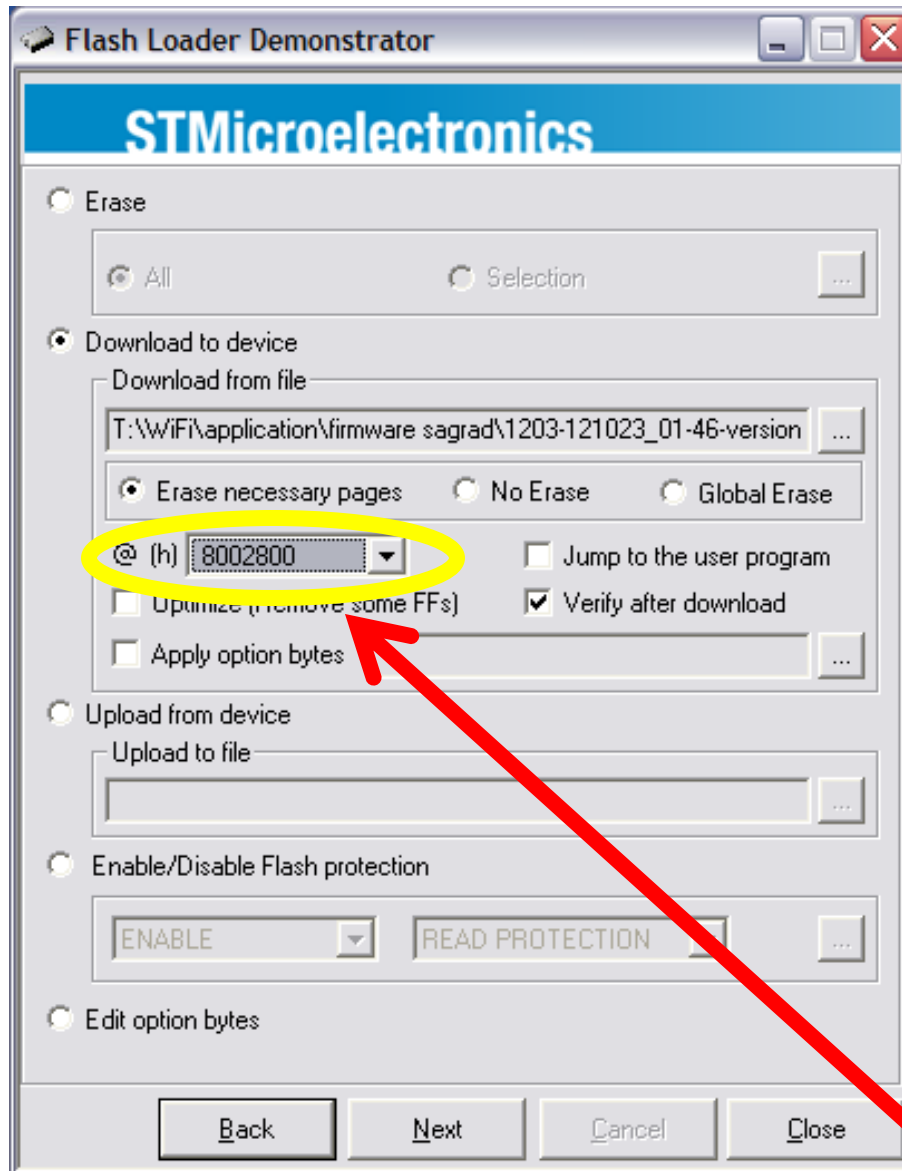
Firmware Upgrading Procedure on STM_WiFi via USB

This procedure use the system memory bootloader of the STM32

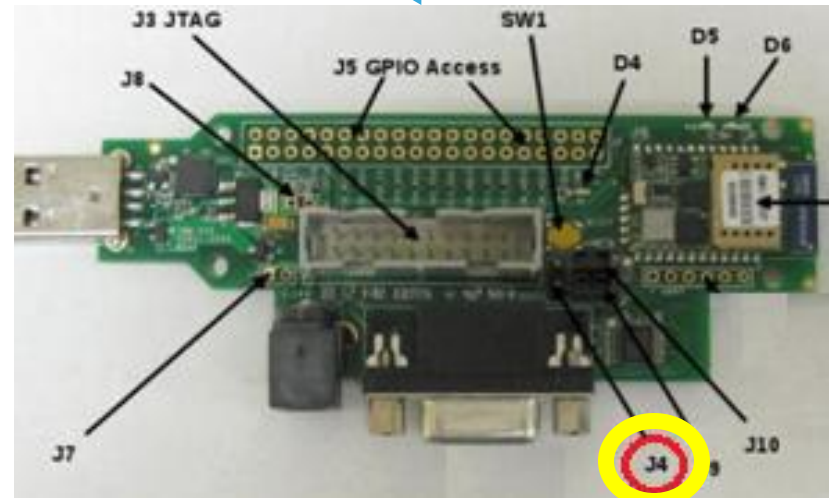
- Insert the jumper on the Boot pin present on the EvaBoard
- Connect the module to PC by USB
- Use the Flash Loader Demonstrator, an application available on the ST website
- **STM WiFi Port Name**



Firmware Upgrading Procedure on STM WiFi



USB
cable



Attention, Must be:
0x08002800

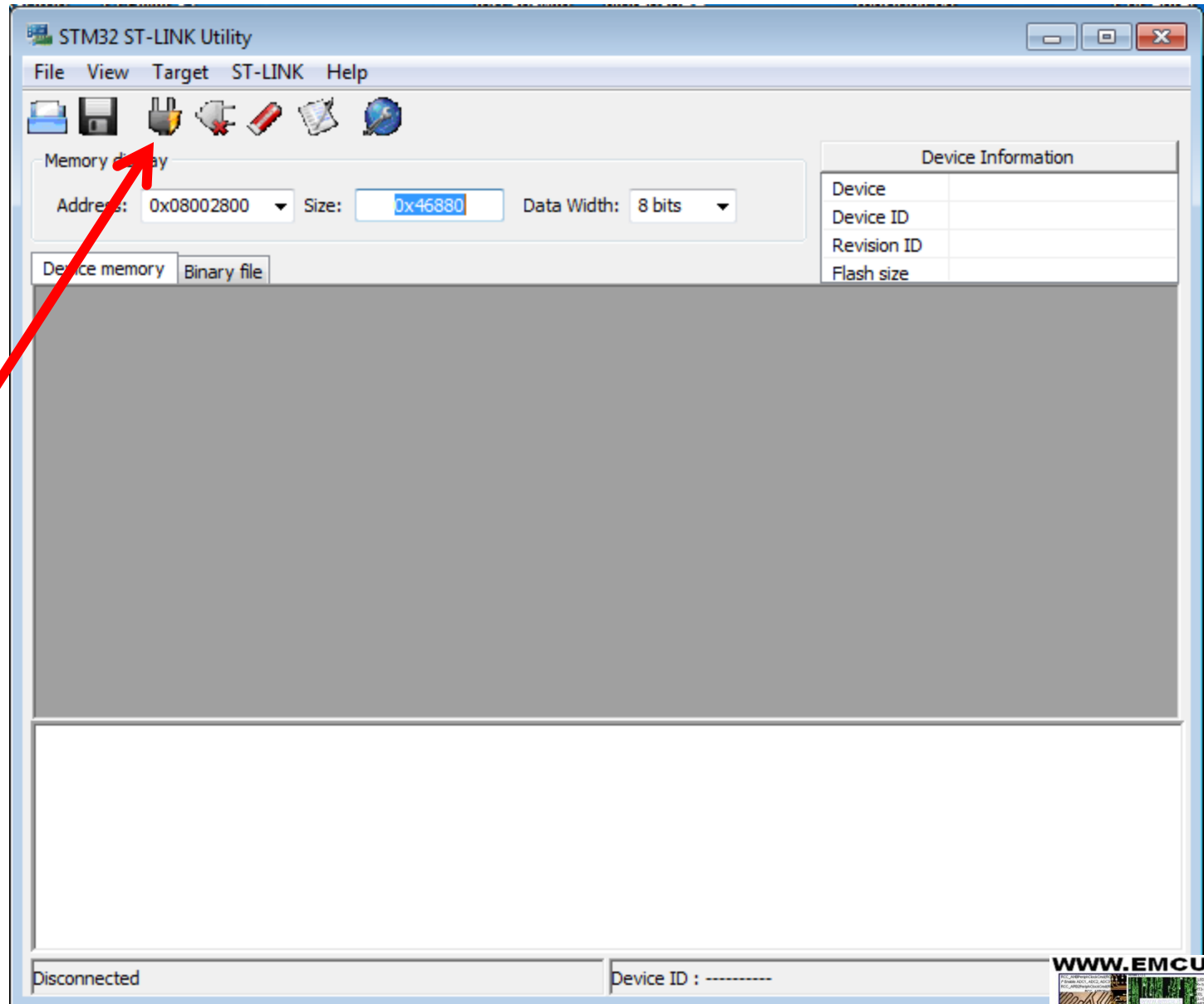
Firmware Upgrading Procedure on STM_WiFi

User FLOW Description

- To place the module in “firmware download” mode, the BOOT0 pin needs to be pulled high (3.3v). This is accomplished by installing the jumper on J4.
- Insert the dongle in a USB slot of the PC
- Run the Flash Loader Demonstrator (UART Baud rate 115200)
- Specify the file to be downloaded (i.e. 1203-121023_01-46-g7c6bd6b-stm_demo.bin)
- Specify the 8002800 as starting address (as in the figure). ATTENTION!!! BE CAREFUL TO SPECIFY THE RIGHT ADDRESS
- Follow the steps (default) until the end of the process
- Put the boot pin to 0 to disable the flash memory boot mode. (i.e. remove the jumper)
- Reset the dongle

If this procedure **fails**, update the SW via **ST-LINK-v2**, see next pages.

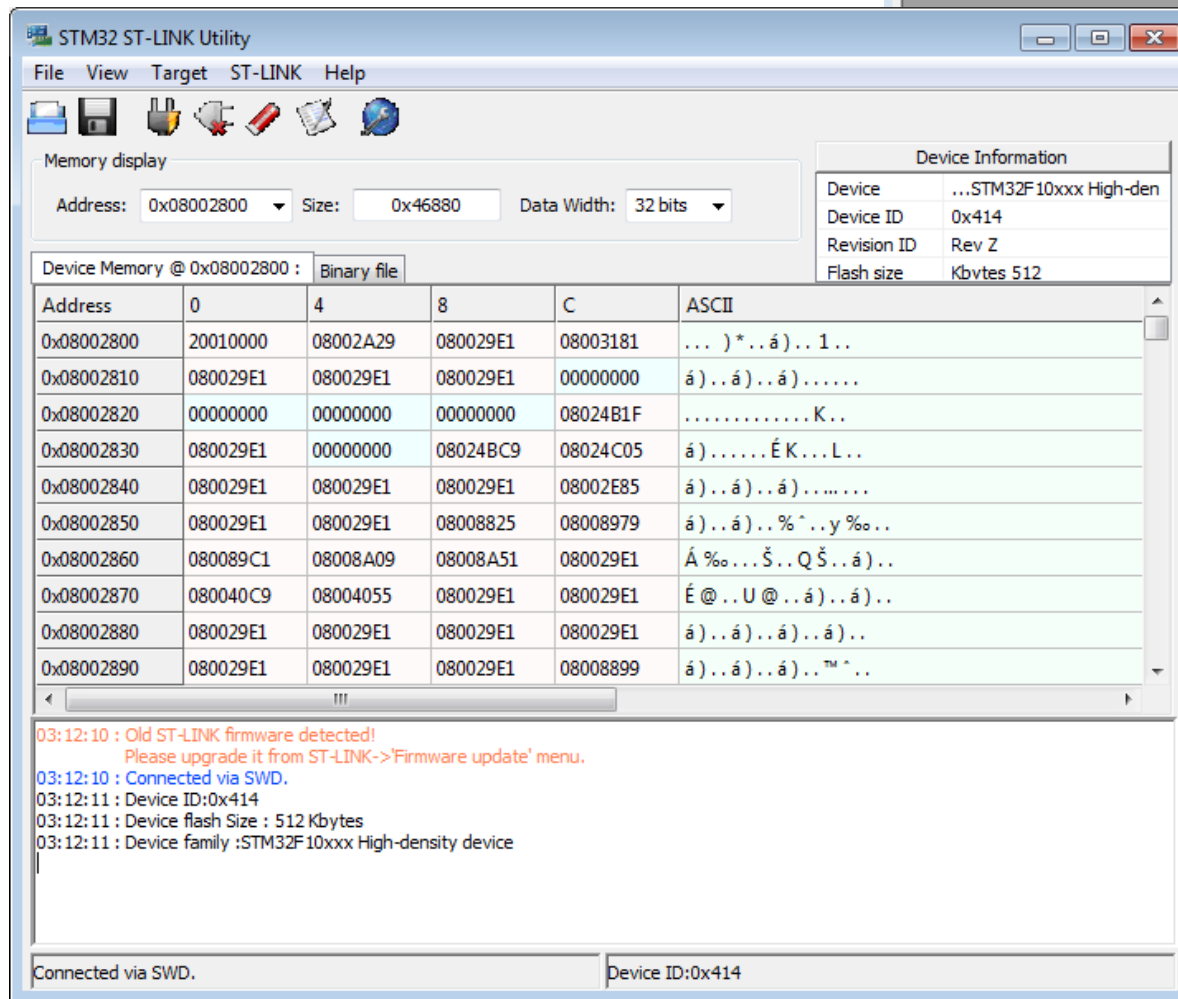
Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility



Click here

Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility

You must see something like this



The screenshot shows the STM32 ST-LINK Utility interface. The 'Memory display' section shows 'Address: 0x08002800', 'Size: 0x46880', and 'Data Width: 32 bits'. The 'Device Information' table shows:

Device Information	
Device	...STM32F10xxx High-den
Device ID	0x414
Revision ID	Rev Z
Flash size	Kbytes 512

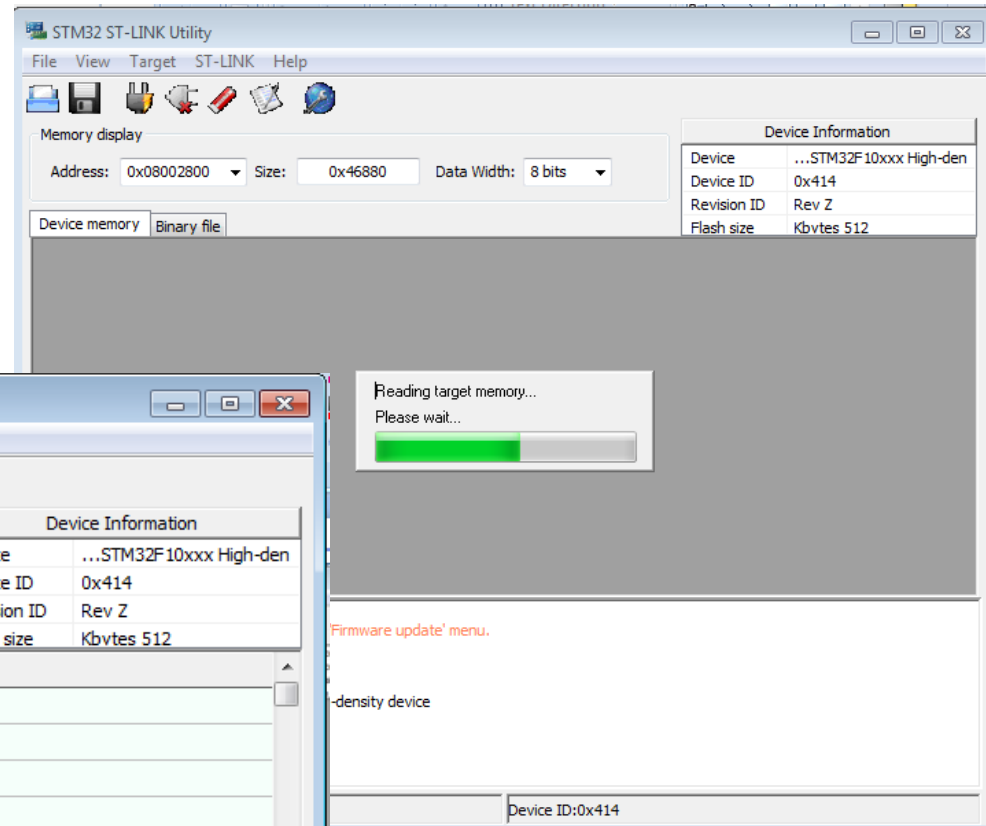
The 'Device Memory @ 0x08002800' section shows a table of memory data:

Address	0	4	8	C	ASCII
0x08002800	20010000	08002A29	080029E1	08003181	...) * . á) . . 1 . .
0x08002810	080029E1	080029E1	080029E1	00000000	á) . . á) . . á)
0x08002820	00000000	00000000	00000000	08024B1F K . .
0x08002830	080029E1	00000000	08024BC9	08024C05	á) É K . . L . .
0x08002840	080029E1	080029E1	080029E1	08002E85	á) . . á) . . á)
0x08002850	080029E1	080029E1	08008825	08008979	á) . . á) . . % ^ . . y % . . .
0x08002860	080089C1	08008A09	08008A51	080029E1	Á % . . . Š . . Q Š . . á) . .
0x08002870	080040C9	08004055	080029E1	080029E1	É @ . . U @ . . á) . . á) . .
0x08002880	080029E1	080029E1	080029E1	080029E1	á) . . á) . . á) . . á) . .
0x08002890	080029E1	080029E1	080029E1	08008899	á) . . á) . . á) . . ™ . . .

The log window shows the following messages:

```
03:12:10 : Old ST-LINK firmware detected!  
           Please upgrade it from ST-LINK->'Firmware update' menu.  
03:12:10 : Connected via SWD.  
03:12:11 : Device ID:0x414  
03:12:11 : Device flash Size : 512 Kbytes  
03:12:11 : Device family :STM32F10xxx High-density device
```

The status bar at the bottom shows 'Connected via SWD.' and 'Device ID:0x414'.



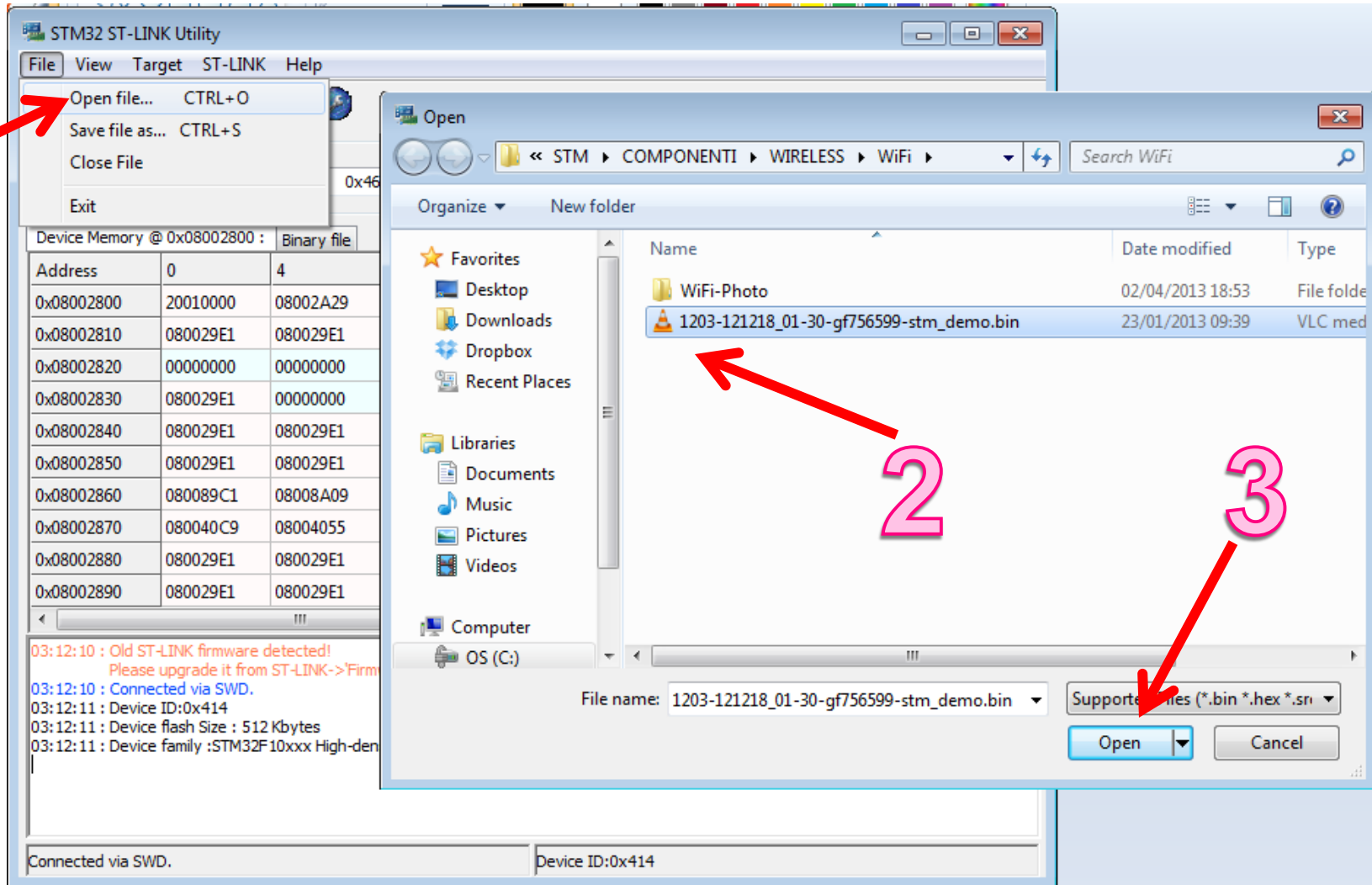
The screenshot shows the STM32 ST-LINK Utility interface. The 'Memory display' section shows 'Address: 0x08002800', 'Size: 0x46880', and 'Data Width: 8 bits'. The 'Device Information' table shows:

Device Information	
Device	...STM32F10xxx High-den
Device ID	0x414
Revision ID	Rev Z
Flash size	Kbytes 512

A progress bar is shown with the text 'Reading target memory... Please wait...'. The status bar at the bottom shows 'Device ID:0x414'.

Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility

1



Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility

The screenshot shows the STM32 ST-LINK Utility interface. The 'Memory display' section shows the address 0x08002800, size 0x46880, and data width 32 bits. The 'Device Information' table shows the device is STM32F10xxx High-den, with device ID 0x414, revision ID Rev Z, and flash size 512 Kbytes.

The 'Device Memory @ 0x08002800' section shows a table of memory addresses and their contents. A red arrow points to the 'OK' button in the dialog box.

The dialog box contains the following text:

STM32 ST-LINK Utility

[1203-121218_01-30-gf756599-stm_demo.bin] opened successfully.
NOTE: The file is NOT downloaded to the device.
Do you want to download it now?

The 'OK' button is highlighted with a red arrow.

The status bar at the bottom shows 'Connected via SWD.' and 'Device ID: 0x414'.

The log window shows the following messages:

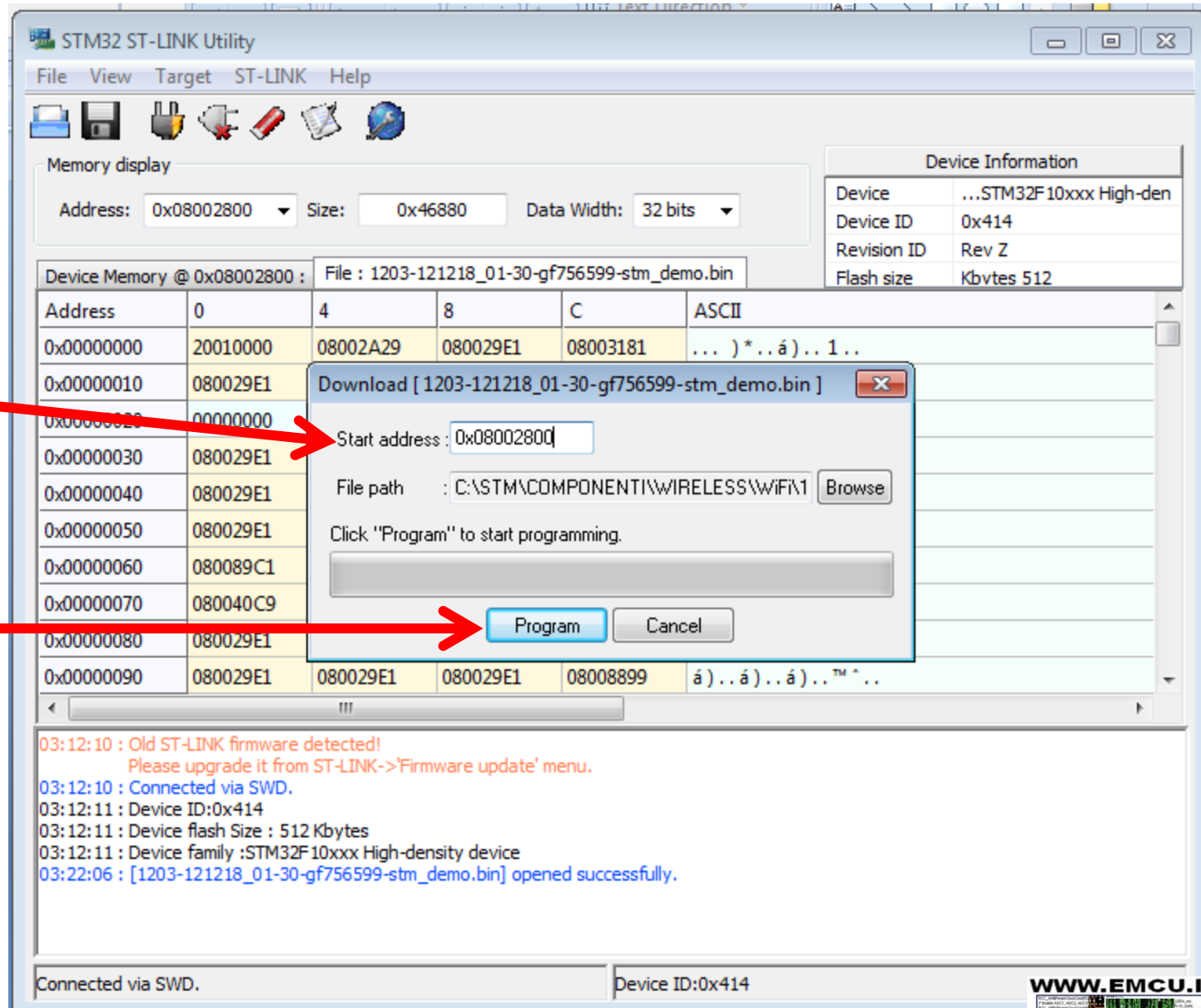
- 03:12:10 : Old ST-LINK firmware detected!
Please upgrade it from ST-LINK->'Firmware update' menu.
- 03:12:10 : Connected via SWD.
- 03:12:11 : Device ID: 0x414
- 03:12:11 : Device flash Size : 512 Kbytes
- 03:12:11 : Device family : STM32F10xxx High-density device
- 03:22:06 : [1203-121218_01-30-gf756599-stm_demo.bin] opened successfully.

Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility

1

Attention, Must be:
0x08002800

2



Firmware Upgrading Procedure on STM_WiFi via ST-LINK Utility

STM32 ST-LINK Utility

File View Target ST-LINK Help

Memory display

Address: 0x08002800 Size: 0x46880 Data Width: 32 bits

Device Memory @ 0x08002800 : File : 1203-121218_01-30-gf756599-stm_demo.bin

Address	0	4	8	C	ASCII
0x08002800	20010000	08002A29	080029E1	08003181	...) * .. á) .. 1 ..
0x08002810	080029E1	080029E1	080029E1	00000000	á) .. á) .. á) ..
0x08002820	00000000	00000000	00000000	08024B1F K ..
0x08002830	080029E1	00000000	08024BC9	08024C05	á) .. É K ... L ..
0x08002840	080029E1	080029E1	080029E1	08002E85	á) .. á) .. á) ..
0x08002850	080029E1	080029E1	08008825	08008979	á) .. á) .. % ^ .. y % ..
0x08002860	080089C1	08008A09	08008A51	080029E1	Á % .. Š .. Q Š .. á) ..
0x08002870	080040C9	08004055	080029E1	080029E1	É @ .. U @ .. á) .. á) ..
0x08002880	080029E1	080029E1	080029E1	080029E1	á) .. á) .. á) .. á) ..
0x08002890	080029E1	080029E1	080029E1	08008899	á) .. á) .. á) .. ^ ..

Device Information

Device	...STM32F10xxx High-den
Device ID	0x414
Revision ID	Rev Z
Flash size	Kbytes 512

03:12:10 : Old ST-LINK firmware detected!
Please upgrade it from ST-LINK->'Firmware update' menu.

03:12:10 : Connected via SWD.

03:12:11 : Device ID:0x414

03:12:11 : Device flash Size : 512 Kbytes

03:12:11 : Device family :STM32F10xxx High-density device

03:22:06 : [1203-121218_01-30-gf756599-stm_demo.bin] opened successfully.

03:25:22 : Flash memory programmed in 48s and 49ms.

03:25:22 : Verification...OK

Connected via SWD.

Device ID:0x414

STM32 ST-LINK Utility

File View Target ST-LINK Help

Memory display

Address: 0x08002800 Size: 0x46880 Data Width: 32 bits

Device Memory @ 0x08002800 : File : 1203-121218_01-30-gf756599-stm_demo.bin

Address	0	4	8	C	ASCII
0x08002800	20010000	08002A29	080029E1	08003181	...) * .. á) .. 1 ..
0x08002810	080029E1	080029E1	080029E1	00000000	á) .. á) .. á) ..
0x08002820	00000000	00000000	00000000	08024B1F K ..
0x08002830	080029E1	00000000	08024BC9	08024C05	á) .. É K ... L ..
0x08002840	080029E1	080029E1	080029E1	08002E85	á) .. á) .. á) ..
0x08002850	080029E1	080029E1	08008825	08008979	á) .. á) .. % ^ .. y % ..
0x08002860	080089C1	08008A09	08008A51	080029E1	Á % .. Š .. Q Š .. á) ..
0x08002870	080040C9	08004055	080029E1	080029E1	É @ .. U @ .. á) .. á) ..
0x08002880	080029E1	080029E1	080029E1	080029E1	á) .. á) .. á) .. á) ..
0x08002890	080029E1	080029E1	080029E1	08008899	á) .. á) .. á) .. ^ ..

Device Information

Device	...STM32F10xxx High-den
Device ID	0x414
Revision ID	Rev Z
Flash size	Kbytes 512

Download [1203-121218_01-30-gf756599-stm_demo.bin]

Start address: 0x08002800

File path : C:\STM\COMPONENT\WIRELESS\WFM1 Browse

Verification...

Program Cancel

Device ID:0x414