![ST life.augmented logo]

STMicroelectronics

Installation guide

Bootcamp STM32

Julien TERRIER
09/04/2024

Table of contents

About this procedure:

The purpose of this procedure is step-by-step configuration for the STM32 bootcamp. At the end of this procedure, you will be able to connect any STM32 boards to your ST's laptop but also use STM32CubeIDE under proxy rules.

Prerequisite:

Hardware:
Personal laptop or ST's laptop

Software:
Windows7 (or higher)
(*Linux distribution or macOS won't be supported during the bootcamp*)
TeraTerm or equivalent.

IT Flow requirements (for ST's laptop only):
Administration right to install the STM32CubeIDE software (Request in flow)
Unblock USB ports on your PC (Request in flow)
Internet access request (Request in flow)
Extended internet communication http proxy (Request in flow), ajouter cette adresse ➔ appgw.gnb.st.com

Step1 Tools installation:

Teach how to install the main tools for programming the STM32:

- STM32CubeMX, a tool to set and graphically program all STM32 boards and products.
- STM32CubeIDE, the free IDE to develop the STM32 software.
- STM32CubeProg, a tool to load/spy software in the STM32 memory.
- STM32CubeL1, an STM32L1 MCU software package with embedded examples.

Having completed this tutorial, you should be able to open the STM32 professional ecosystem.

You should also manage to bring applications from the ecosystem onto the NUCLEO board.

Install STM32CubeMX:

⏱ 10mins

STM32CubeMX is the tool to graphically program the STM32.

- Register on www.st.com website.
- Download STM32CubeMX
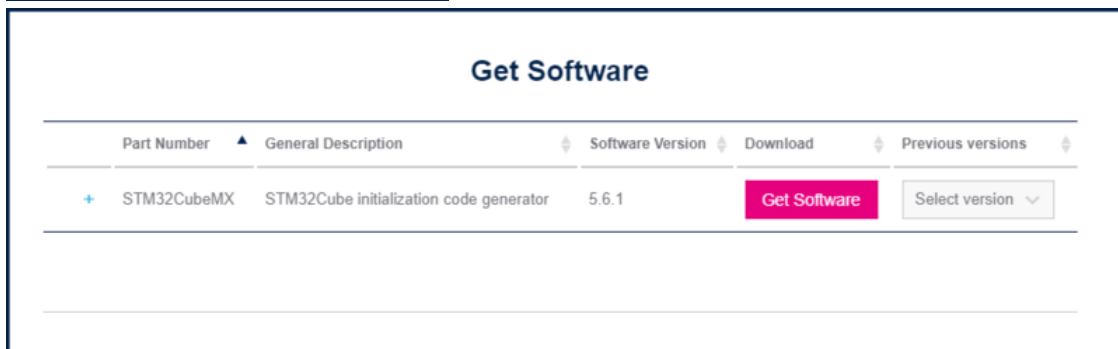
- Unzip the downloaded file and launch the SetupSTM32CubeMX-xxx corresponding to your OS.

STM32CubeMX is now installed on your computer.

Install STM32CubeIDE:

⏱ 10mins

STM32CubeIDE is the Integrated Development Environment to develop STM32 software.

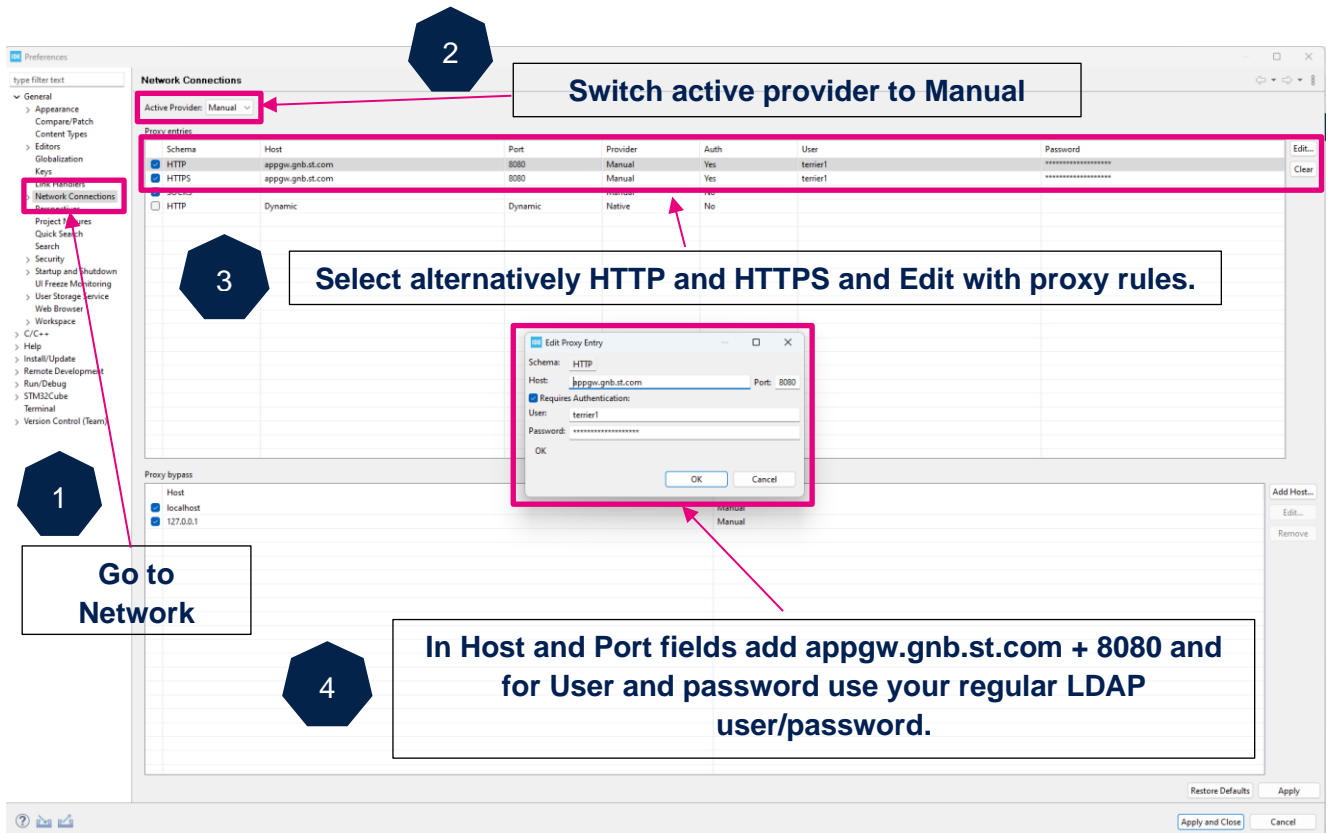- Register on www.st.com website (if you haven't already).
- Download STM32CubeIDE.

- Unzip the downloaded file and launch the STM32CubeIDE-xxx corresponding to your OS.

STM32CubeIDE is now installed on your computer, enjoy!

STM32CubeIDE proxy configuration only for ST's laptop:

The step here is to configure the proxy rules to be able to connect your laptop to the ST's server to recover the STM32CubeL1 firmware.
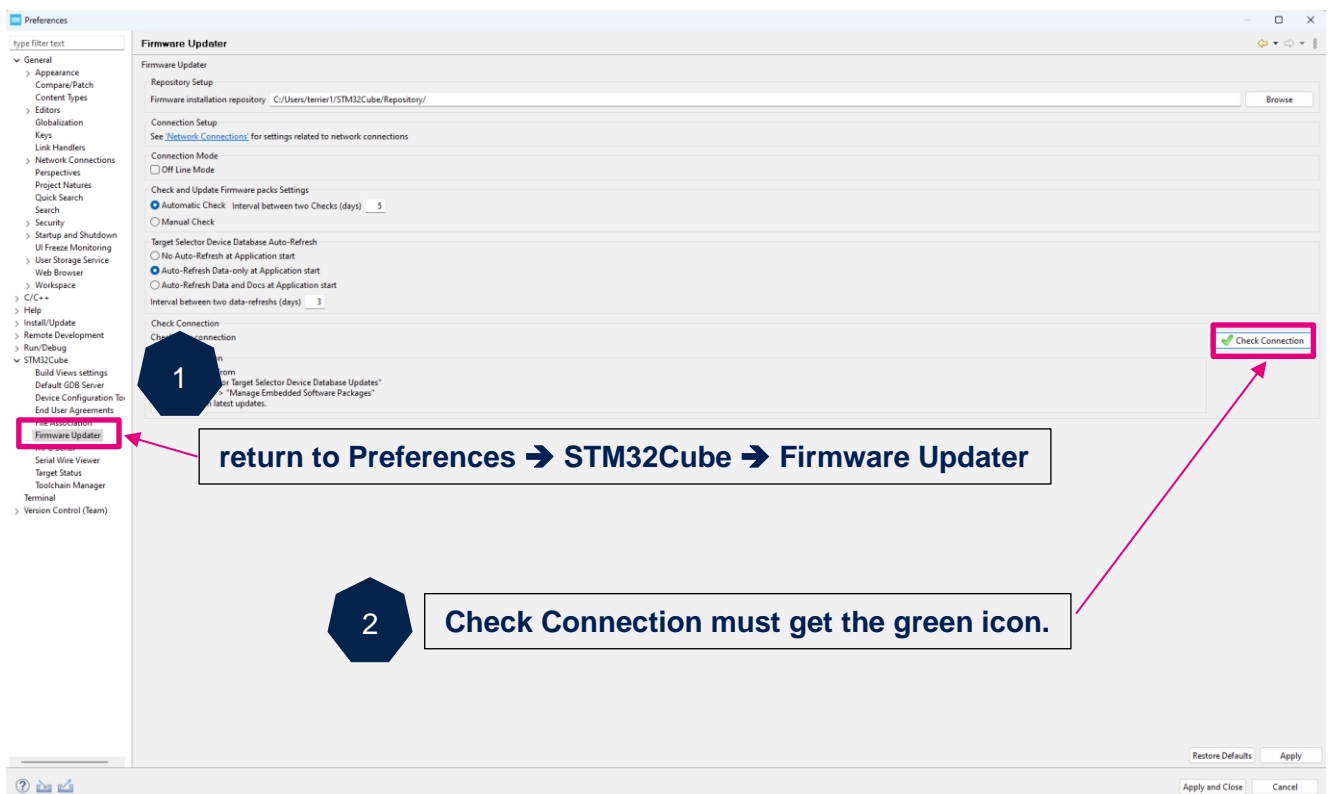

You must be log with your www.st.com

Go to Window ➜ Preferences.
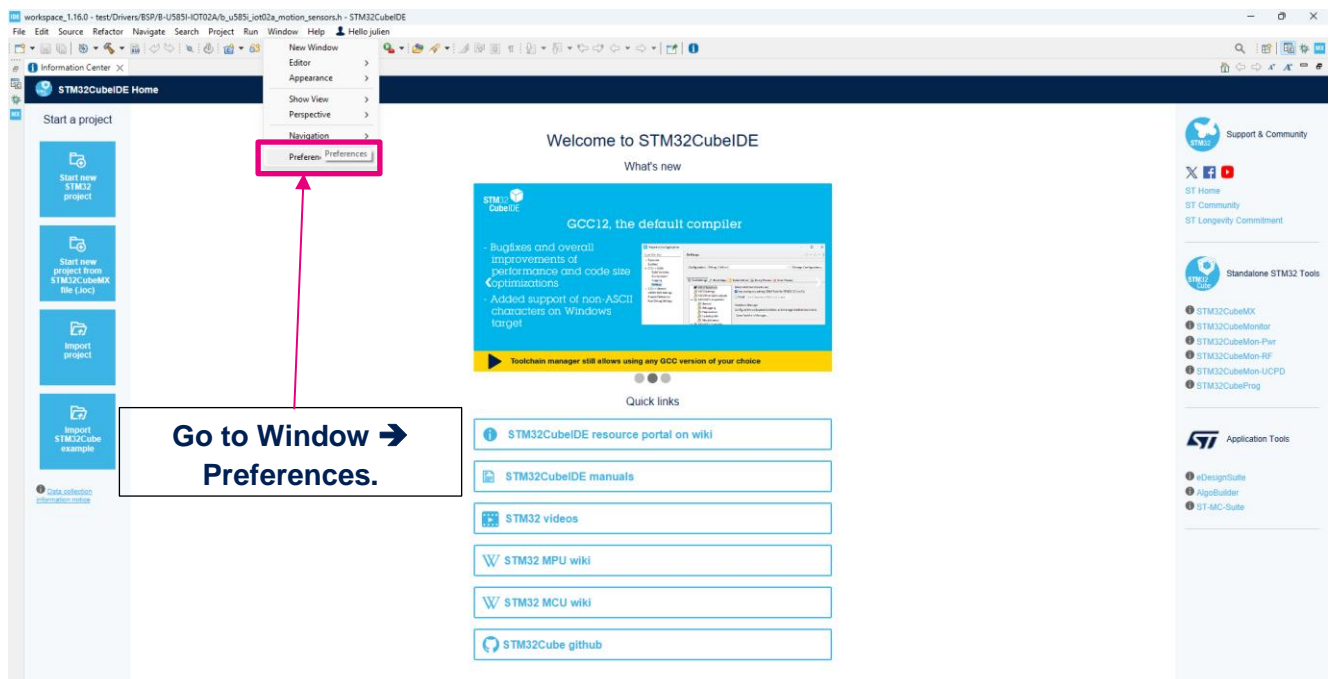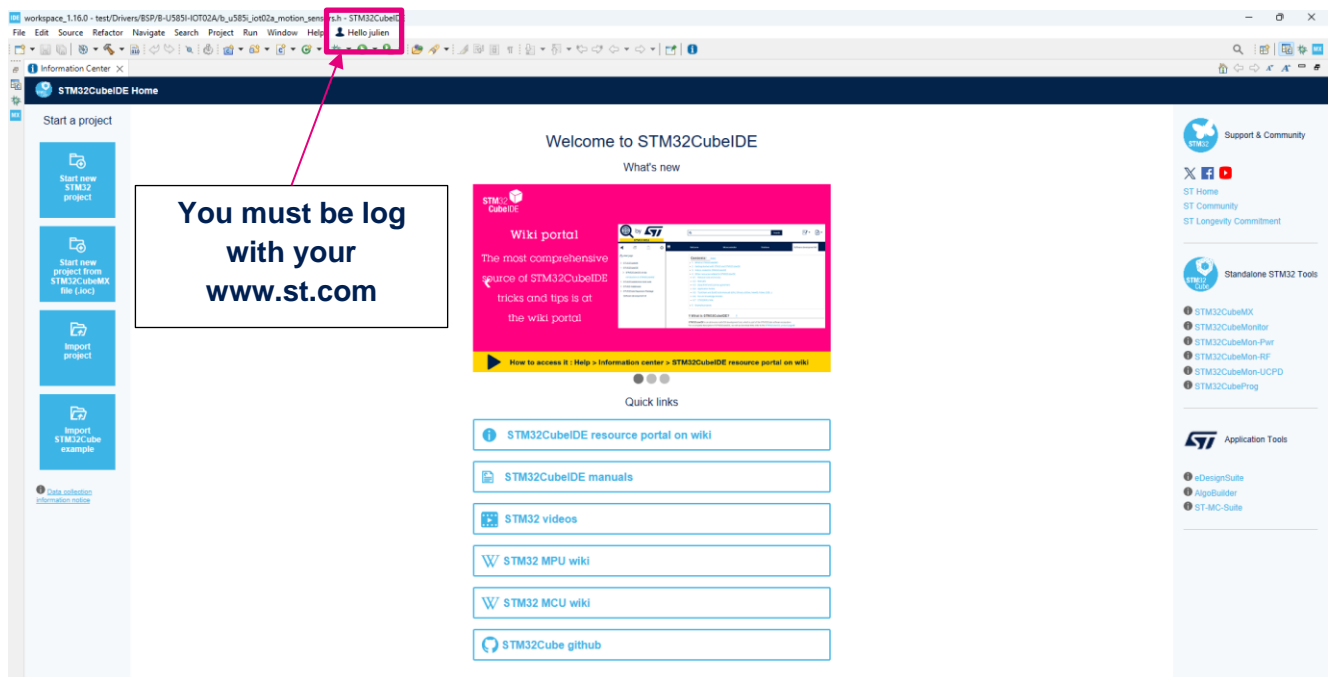
2 Switch active provider to Manual

3 Select alternatively HTTP and HTTPS and Edit with proxy rules.

1 Go to Network

4 In Host and Port fields add appgw.gnb.st.com + 8080 and for User and password use your regular LDAP user/password.

1 return to Preferences ➜ STM32Cube ➜ Firmware Updater

2 Check Connection must get the green icon.

Workaround ST proxy if the first case doesn't work:

Find proxy and port:


```
C:\WINDOWS\system32\cmd.    ×    +    ˅                                                      —    □    ×

Microsoft Windows [Version 10.0.19045.4894]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Jean-Baptiste OTTOU>netsh winhttp show proxy

Current WinHTTP proxy settings:

    Proxy Server(s) :  http://gateway.zscaler.net:80
    Bypass List     :  <local>;*.st.com;go.microsoft.com;definitionupdates.microsoft.com;www.microsoft.com;winatp-gw-neu
.microsoft.com;winatp-gw-weu.microsoft.com;*.wdcp.microsoft.com;*.wdcpalt.microsoft.com;*.wd.microsoft.com
```

HOST	PORT
http://gateway.zscaler.net	80

use this host + port = 80 if appgw.gnb.st.com doesn't work.
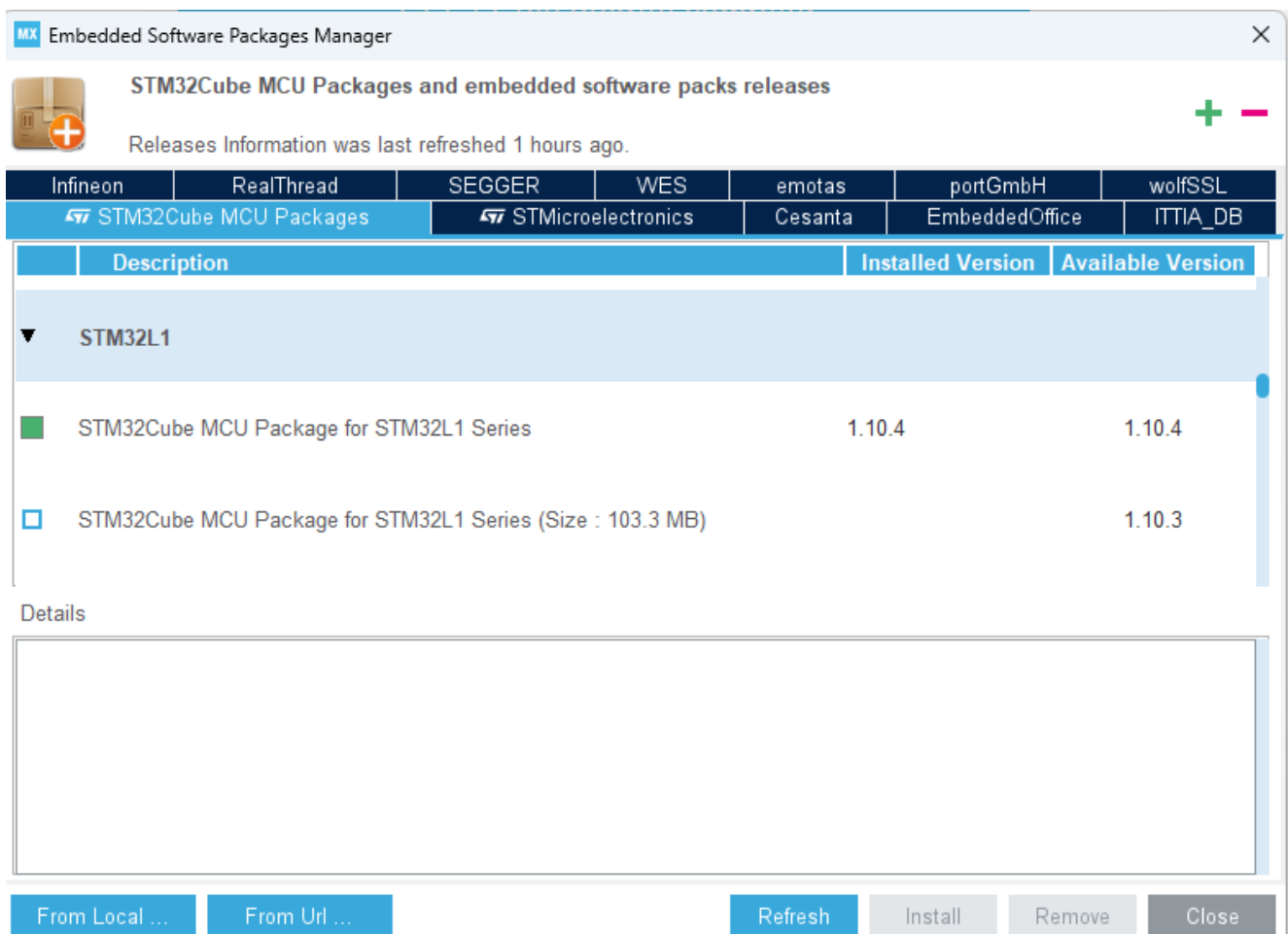
Download STM32CubeL1 Firmware package:

⏱ 10mins

STM32Cube MCU Package for STM32L1 Series.

- Open STM32CubeMX
- Click Manage embedded software packages in Help.
- Check the last STM32CubeL1 release version.
- Click Install (it may take a long time)

- Now STM32L1 libraries and examples are installed at the following location➔ C:\Users\name\STM32Cube\Repository\STM32Cube_FW_L1_Vx.xx.x
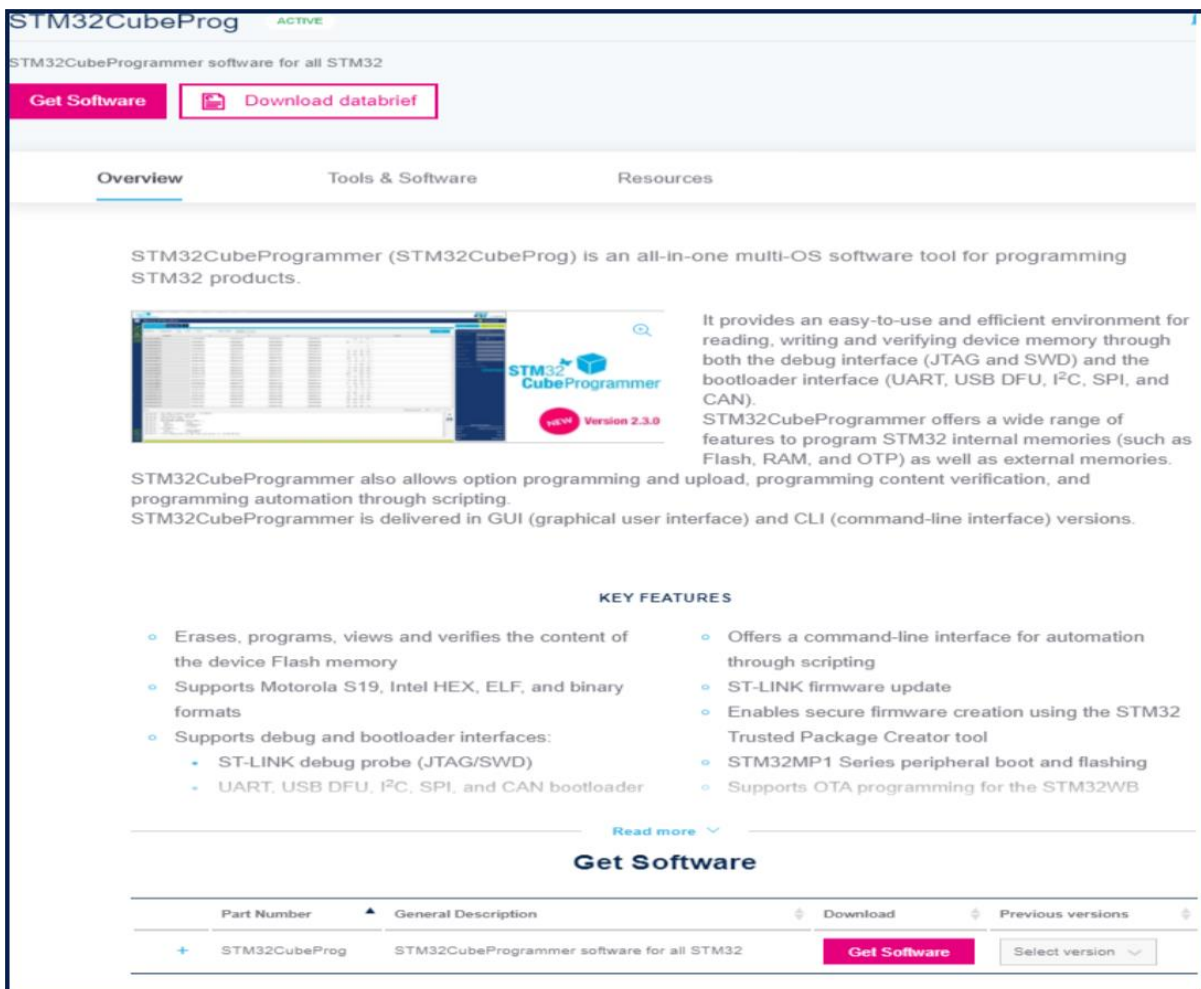
Install STM32CubeProg:

🕐 5mins

STM32CubProgrammer is a tool load/spy software in STM32.

- Download STM32CubeProg

- Unzip the downloaded file and launch the SetupSTM32CubeProgrammer-xxx.exe corresponding to your OS and follow the instructions.

STM32CubeProg are now installed on your computer.