

STM32CubeProgrammer release v2.5.0

Introduction

This release note is updated periodically to keep abreast of the STM32CubeProgrammer (STM32CubeProg) evolution, problems and limitations. Check the STMicroelectronics support website at www.st.com/stm32softwaretools for the latest version. For the latest release summary, refer to [Table 1](#).

Table 1. STM32CubeProgrammer v2.5.0 release summary

Type	Summary
Major release	<ul style="list-style-type: none">• Added the support for STM32G491xC and STM32G491xE microcontrollers• Added the support for STM32H72xxx and STM32H73xxx microcontrollers• Added SFI support for STM32H72xxx and STM32H73xxx microcontrollers• Added SFIx support for STM32H72xxx and STM32H73xxx microcontrollers• Added SFI support via UART for STM32L5 Series microcontrollers• Added SFI support via USB for STM32L5 Series microcontrollers• Added support of Serial Wire Viewer (SWV)• Board automatic recognition• Revision ID display

Customer support

For more information or help concerning STM32CubeProgrammer, contact the nearest STMicroelectronics sales office. For a complete list of STMicroelectronics offices and distributors, refer to the www.st.com webpage.

Software updates

Software updates and all the latest documentation can be downloaded from the STMicroelectronics support webpage at www.st.com/stm32softwaretools.

1 General information

1.1 Overview

STM32CubeProgrammer is a tool that allows STM32 device programming through debug interfaces (JTAG and SWD) and bootloader interfaces (UART and USB).

The tool offers a wide range of features to program STM32 internal memories (Flash, RAM, OTP and others) and external memories, verify the programming content (checksum, verify during and after programming, compare with file), and automate STM32 programming.

The STM32CubeProgrammer package also offers the optional installation of the STM32 Trusted Package Creator tool, which is used to create secure firmware files for secure firmware install and update. For more information, refer to the *STM32 Trusted Package Creator tool software description* user manual (UM2238).

STM32CubeProgrammer supports STM32 32-bit microcontrollers and microprocessors based on the Arm[®] Cortex[®] processor.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



1.2 Host PC system requirements

Supported operating systems and architectures

- Windows[®] 7, 8, and 10: 32 bits (x86) and 64 bits (x64)
- Linux[®] 64 bits (tested on Ubuntu[®] 64 bits)
- macOS[®] (minimum version OS X[®] Yosemite)

Note: Ubuntu[®] is a registered trademark of Canonical Ltd.

macOS[®] is a trademark of Apple Inc. registered in the U.S. and other countries.

Software requirements

The Java[™] SE Run Time Environment 1.8 (version 1.8.0_121 or newer) must be installed by Oracle[®] (Only Java[™] 8 is supported).

After Oracle[®] announcement related to the “End of Public Updates for Oracle JDK 8”, access to OpenJDK is possible via adoptopenjdk.net.

Note: Oracle and Java are registered trademarks of Oracle and/or its affiliates.

All other trademarks are the property of their respective owners.

1.3 Setup procedure

Refer to the *STM32CubeProgrammer software description* user manual (UM2237) available at www.st.com.

1.4 Licensing

STM32CubeProg is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

The software components used in the development of STM32CubeProgrammer and their licenses are listed in Table 2.

Table 2. List of software components licenses

Name	Version	License ⁽¹⁾	Details
Java™ Native Access	4.5.0	Apache-2.0	mvnrepository.com
Izpack	5.1.2		
QT framework	5.4	LGPL-3.0-only	www.qt.io
LibUSB	1.0.20	LGPL-2.0-only	github.com/libusb/libusb

1. License identifier as defined by OSI (opensource.org/licenses) or SPDX (spdx.org/licenses).

2 STM32CubeProgrammer v2.5.0 release information

2.1 New features

- Added the support for STM32G491xC and STM32G491xE microcontrollers
- Added the support for STM32H72xxx and STM32H73xxx microcontrollers
- Added SFI support for STM32H72xxx and STM32H73xxx microcontrollers
- Added SFIx support for STM32H72xxx and STM32H73xxx microcontrollers
- Added SFI support via UART for STM32L5 Series microcontrollers
- Added SFI support via USB for STM32L5 Series microcontrollers
- Added support of Serial Wire Viewer (SWV)
- Board automatic recognition
- Revision ID display

2.2 Fixed issues

Table 3. Main issues fixed in STM32CubeProgrammer v2.5.0

ID	Summary
59191	[STM32WB] Unable to remove or install the RF stack over UART bootloader + RSS.
60618	Erase of EEPROM memory of STM32L051 using the <i>Erase selected sectors</i> option.
62173	Cannot connect to STM32F072 DFU system bootloader.
65682	[UART] Cannot update Option Bytes with the UART.
66596	[UART] STM32L010 can be programmed.
67646	CLI missing <code>-w64</code> command + OTP area not programmed via SWD.
68736	[STM32F7] Unable to erase multiple sectors for dual-bank Flash memory.
68990	[secure boot] Key generation not functional with <code>STM32MP_KeyGen_CLI</code> on Linux®.
70592	Start address box is activated after programming <code>.hex</code> file.
71108	[STM32H7] Flashing through SWD in SFI mode finishes with errors.
73495	[STM32F072] Cannot remove read protection through DFU bootloader.
79494	Fail to program STM32L0 MCUs
79912	[STM32F446] Flash memory size register reading with bootloader interface.
82752	[UART][CLI] Upload size is bigger than Flash memory size.
82867	<i>Firmware Upgrade Service</i> panel does not disappear on disconnect from compatible device.
83296	[STM32L5][SFI]: SFI fails if RDP is set to 0 or 1 in <code>.csv</code> file or if start SFI with <code>TZEN=1</code> .
83346	<code>GetCubeprogrammer_API.lib</code> compiled with x64.
88504	Issues with programming 512-Kbyte memory with 362-Kbyte file.
89436	Failure to program binary to STM32L4 Nucleo board with the CAN interface using bootloader.

2.3 Known problems and limitations

- For the STM32L5 Series, the Option Byte programming GUI is not intuitive enough. Refer to the *STM32L552xx and STM32L562xx advanced Arm®-based 32-bit MCUs* reference manual (RM0438) for permitted accesses.
- For STM32L4Pxxx and STM32L4Qxxx devices, Option Byte programming via bootloader interfaces presents some limitations.

- For STM32H7Axxx and STM32H7Bxxx devices, Option Byte programming via bootloader interfaces (USB) presents some limitations.
- STM32L5 Series programming presents limitation in macOS® when `TZEN=1` and `RDP=0x55`.
- Display issues depending on the monitor used can occur with Linux®.
- SFI-HSM V2 `get certificate` fails with STM32L462xx devices.
- Parallel Flash programming fails in macOS® for microprocessors in the STM32MP1 Series.
- Issues can be reported with some specific `.elf` file in CRC calculation safety feature.
- STM32MP1 microprocessor programming via UART presents limitations to program the whole boot chain.
- STM32MP1 microprocessor `get certificate` operation is not completed via a UART connection.

3 Previous release information

3.1 STM32CubeProgrammer v2.4.0 release information

3.1.1 New features

- Added the support of the graphic user interface (GUI) for the firmware upgrade service (FUS) and stack upgrade for the entire STM32WB Series
- Support of HSM V2 on all STM32 microcontrollers and microprocessors supporting SFI/SSP

3.1.2 Fixed issues

Table 4. Main issues fixed in STM32CubeProgrammer v2.4.0

ID	Summary
77015	STM32CubeProgrammer cannot connect ST-LINK without the mass storage feature.
78350	STM32CubeProgrammer issue with STM32G0 when programming binary (size 18448 bytes).

3.1.3 Known problems and limitations

- For the STM32L5 Series, the connection via the ST-LINK protocol is allowed only when mode is set to *hotplug* with `TZEN=1`.
- For the STM32L5 Series, the Option Byte programming GUI is not intuitive enough. Refer to the *STM32L552xx and STM32L562xx advanced Arm®-based 32-bit MCUs* reference manual (RM0438) for permitted accesses.
- For STM32L4Pxxx and STM32L4Qxxx devices, Option Byte programming via bootloader interfaces presents some limitations.
- For STM32H7Axxx and STM32H7Bxxx devices, Option Byte programming via bootloader interfaces (USB) presents some limitations.
- STM32L5 series programming presents limitation in macOS® when `TZEN=1` and `RDP=0x55`.
- With some small-screen resolutions, the graphical interface of STM32CubeProgrammer presents anomalies such as inaccessible buttons.
- Display issues depending on the monitor used can occur with Linux®.
- SFIx on STM32H743/753 devices fails via the debug interface.
- SFI-HSM V2 *get certificate* fails with STM32L462xx devices.
- Parallel Flash programming fails in macOS® for microprocessors in the STM32MP1 Series.

3.2 STM32CubeProgrammer v2.3.0 release information

3.2.1 New features

- Added the support of the STM32L4Pxxx and STM32L4Qxxx microcontrollers
- Added the support of the STM32H7Axxx and STM32H7Bxxx microcontrollers
- Added the beta support of the STM32WL Series microcontrollers
- Added the official support of the STM32L5 Series microcontrollers
- Added the support of HSM V1 SFI/SFIx for STM32H7Axxx microcontrollers
- Added the support of HSM V1 SFI/SFIx for STM32L5 Series microcontrollers

3.2.2 Fixed issues

Table 5. Main issues fixed in STM32CubeProgrammer v2.3.0

ID	Summary
63887	STM32CubeProgrammer does not program Option Byte from an <code>.hex</code> file for STM32F446xx.
64229	STM32Cubeprogrammer does not erase sector 128 and upper on STM32L476RG.
66609	STM32CubeProgrammer programming request of OTP byte via STM32CubeProgrammer.
67025	STM32Cubeprogrammer cannot connect ST-LINK without the mass storage feature.
77015	Support Flash Loader for STM32F769-EVAL:MT25QL512.

3.2.3 Known problems and limitations

- For the STM32L5 Series, the connection via the ST-LINK protocol is allowed only when mode is set to *hotplug* with `TZEN=1`.
- For the STM32L5 Series, the Option Byte programming GUI is not intuitive enough. Refer to the *STM32L552xx and STM32L562xx advanced Arm®-based 32-bit MCUs* reference manual (RM0438) for permitted accesses.
- For STM32L4Pxxx and STM32L4Qxxx devices, Option Byte programming via bootloader interfaces presents some limitations.
- For STM32H7Axxx and STM32H7Bxxx devices, Option Byte programming via bootloader interfaces (USB) presents some limitations.
- STM32L5 series programming presents limitation in macOS® when `TZEN=1` and `RDP=0x55`.
- With some small-screen resolutions, the graphical interface of STM32CubeProgrammer presents anomalies such as inaccessible buttons.
- Display issues depending on the monitor used can occur with Linux®.

3.3 STM32CubeProgrammer v2.2.1 release information

3.3.1 New features

No new feature is reported for this release. Minor release v2.2.1 is dedicated to issue correction (refer to [Fixed issues](#)).

3.3.2 Fixed issues

Table 6. Main issue fixed in STM32CubeProgrammer v2.2.1

ID	Summary
74031	STM32CubeProgrammer issue programming STM32H7 Rev V via DFU.

3.3.3 Known problems and limitations

- For the STM32L5 Series, the connection via the ST-LINK protocol is allowed only when mode is set to *hotplug*.
- For the STM32L5 Series, the Option Byte programming GUI is not intuitive enough. Refer to the *STM32L552xx and STM32L562xx advanced Arm®-based 32-bit MCUs* reference manual (RM0438) for permitted accesses.
- For the STM32L5 Series, Option Byte programming via bootloader interfaces presents some limitations.
- STM32CubeProgrammer does not work under Ubuntu® 18.04.

- With some small-screen resolutions, the graphical interface of STM32CubeProgrammer presents anomalies such as inaccessible buttons.
- Display issues depending on the monitor used can occur with Linux®.

3.4 STM32CubeProgrammer v2.2.0 release information

3.4.1 New features

- Added the support of the STM32L5 Series
- Added the support of HSMv2
- Added the support of IAP for the USB-DFU interface
- STM32WB firmware upgrade via the ST-LINK interface
- Added the support of OTP for the STM32L5 Series
- Added the support of SSP for the STM32MP1 Series

3.4.2 Fixed issues

Table 7. Main issues fixed in STM32CubeProgrammer v2.2.0

ID	Summary
58587	STM32CubeProgrammer does not support STM32L433RC-P and STM32L433RB.
61375	STM32L073 - How to erase the Data EEPROM?
61731	CLI Device not supported but programmed. RDP not programmed.
68802	USB DFU for STM32L452 and STM32L476 device IDs is unknown while connecting with the USB.
68916	STM32CubeProgrammer does not recognize STM32F413 USB DFU.
69927	IAP DFU is not working with STM32CubeProgrammer: <code>Error Unknown</code> or unsupported device (<code>DevID = 0x0000</code>).
71074	STM32CubeProgrammer v2.1.0 defect - DFU mode sector erase fails on STM32H743 2MB Rev V.

3.4.3 Known problems and limitations

- For the STM32L5 Series, the connection via the ST-LINK protocol is allowed only when mode is set to *hotplug*.
- For the STM32L5 Series, the Option Byte programming GUI is not intuitive enough. Refer to the *STM32L552xx and STM32L562xx advanced Arm®-based 32-bit MCUs* reference manual (RM0438) for permitted accesses.
- For the STM32L5 Series, Option Byte programming via bootloader interfaces presents some limitations.
- STM32CubeProgrammer does not work under Ubuntu® 18.04.
- With some small-screen resolutions, the graphical interface of STM32CubeProgrammer presents anomalies such as inaccessible buttons.

3.5 STM32CubeProgrammer v2.1.0 release information

3.5.1 New features

- Added support of STM32G4 Series
- Added support of STM32G03x/STM32G04x microcontrollers
- Added support of dual-core microcontrollers in the STM32H7 Series
- Added support of secure firmware install (SFI)

3.5.2 Fixed issues

Table 8. Main issues fixed in STM32CubeProgrammer v2.1.0

ID	Summary
62057	Download file is always executed after simple download with ST-LINK/V2 and STLINK-V3.
64155	Impossible to erase sector 128 and upper on STM32L476RG with STM32CubeProgrammer.

3.5.3 Known problems and limitations

- The use of the UART bootloader prevents from increasing the RDP level and programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- UART flashing of devices in the STM32MP1 Series may fail with big partitions.
- Programming issues are observed with the STM32H7 Series when the STLINK-V3 I²C interface is used.
- GUI issues are sometimes observed with the OTA programming of devices in the STM32WB Series.
- Linux® 32 bits is not supported.
- STM32 Trusted Package Creator: only the CLI version is supported on macOS®.
- Mass Erase is not working with the SPI bootloader interface on the STM32WB Series.
- Mass Erase is not working with the I²C bootloader interface on the STM32G4 Series; errors can occur when writing via the SPI interface.
- Shared mode: board detection failure is observed after multiple refresh operations.
- Writing 8-bit data in RAM on STM32L496G devices is not possible.

3.6 STM32CubeProgrammer v2.0.0 release information

3.6.1 New features

- Added support of STM32MP1 Series
- Added support of STM32WB Series
- Added support of *Automatic Mode* for programming devices in a loop
- Added support of OTA programming for the STM32WB Series

3.6.2 Fixed issues

Table 9. Main issues fixed in STM32CubeProgrammer v2.0.0

ID	Summary
58879	Internal Flash programming issue with STM32L433RC (SMPS version) and STM32L433RB.
60257	<i>stlinkv3.rules</i> is missing in the <i>drivers\rules\</i> folder.

3.6.3 Known problems and limitations

- The use of the UART bootloader prevents from increasing the RDP level and programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.

- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- UART flashing of devices in the STM32MP1 Series may fail with big partitions.
- Programming issues are observed with the STM32H7 Series when the STLINK-V3 I²C interface is used.
- GUI issues are sometimes observed with STM32WB Series OTA programming.
- Linux® 32 bits is not covered.
- STM32 Trusted Package Creator: only the CLI version is supported on macOS®.

3.7 STM32CubeProgrammer v1.4.0 release information

3.7.1 New features

- Added STM32CubeProgrammer C++ API
- Added support of secure firmware install on [STM32L462CEU6F](#)

3.7.2 Fixed issues

Table 10. Main issues fixed in STM32CubeProgrammer v1.4.0

ID	Summary
55454	Programming a STM32F765NIH6 via USART1 can be done.
56817	Cannot program internal Flash of STM32F722ZE and STM32F730R8 via USB.

3.7.3 Known problems and limitations

- Read/write operations fail with the CAN interface.
- The use of the UART bootloader prevents from increasing the RDP level and programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- The STLinkV3-I2C bridge may not work correctly with STM32F4 Series, STM32F7 Series, and STM32H7 Series.

3.8 STM32CubeProgrammer v1.3.0 release information

3.8.1 New features

- Added support of STM32G07x and STM32G08x microcontrollers
- Added support of STM32L010 microcontrollers
- Flash size displayed with debug interface
- Extended ST-LINK server interface support to Linux® and macOS®
- User interface enhancements
- Added contextual menu in main panel for programming, verification, and saving
- Added support of *.binary* files
- Added support of Unicode® file path
- New panel for external loaders; possibility to search and filter with the loader or board name

3.8.2 Fixed issues

Table 11. Main issues fixed in STM32CubeProgrammer v1.3.0

ID	Summary
54212	STM32CubeProg could not display complete MCU list.
54700	Issue with file path including Chinese characters (double-byte characters).
55156	Error with hex file programming with option "run after programming".

3.8.3 Known problems and limitations

- Read/write operations fail with the CAN interface.
- The use of the UART bootloader prevents from increasing the RDP level and programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- The STLinkV3-I2C bridge may not work correctly with STM32F4 Series, STM32F7 Series, and STM32H7 Series.

3.9 STM32CubeProgrammer v1.2.1 release information

3.9.1 New features

- Full-chip erase enabled for STM32L0 Series and STM32L1 Series
- Enhanced connection to STM32L0 Series and STM32L1 with STLINK-V3
- Added support of Quad-SPI Flash loaders:
 - N25Q128A_STM32F7508-DISCO
 - MX25L512G_STM32F7308-DISCO
 - MT25TL01G_STM32H743I-EVAL
 - MT25TL01G_STM32H747-EVAL

3.9.2 Fixed issues

Table 12. Main issues fixed in STM32CubeProgrammer v1.2.1

ID	Summary
53000	[GUI-memory edition] UART memory editions do not work
53496	[Launcher-java10] The tool is not launched in Windows10 64 bits with Java10
54292	[USB] Connection time increases after every disconnect/connect with DFU interface

3.9.3 Known problems and limitations

- Read/write operations fail with the CAN interface.
- The use of the UART bootloader prevents from increasing the RDP level and from programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.

- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- STLinkV3-I2C bridge may not work correctly with STM32F4 Series, STM32F7 Series, and STM32H7 Series.

3.10 STM32CubeProgrammer v1.2.0 release information

3.10.1 New features

- Add support of STLINK-V3
- Add support of STM32L41x microcontrollers
- Listing of the connected ST-LINK probes using the `--list` command
- Digitally signed USB DFU driver for STM32 bootloader
- Add support of ST-LINK server interface

3.10.2 Known problems and limitations

- Read/write operations fail with the CAN interface.
- The use of the UART bootloader prevents from increasing the RDP level and from programming the second bank of Option Bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.
- STLinkV3-I2C bridge may not work correctly with STM32F4 Series, STM32F7 Series, and STM32H7 Series.

3.11 STM32CubeProgrammer v1.1.0 release information

3.11.1 New features

- Add support of STM32F7x0 Value line and STM32H750 Value line
- Add support of M29W128GL external Flash memory programming on STM32H743I-EVAL
- Dump device memory into an hex/srec/bin file
- Add Core debug commands in command-line interface
- Add support of data EEPROM programming on STM32L0 Series and STM32L1 Series

3.11.2 Known problems and limitations

- The use of the UART bootloader prevents from increasing the RDP level and from programming the second bank of option bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.

3.12 STM32CubeProgrammer v1.0.0 release information

3.12.1 New features

- STM32 Flash programming and erasing over ST-LINK debug probe (JTAG/SWD) and over bootloader interfaces UART and USB DFU
- STM32 option bytes detailed display with description of each bit field
- Option bytes programming over ST-LINK debug probe (JTAG/SWD) and over bootloader interfaces UART and USB DFU

- External memories programming over ST-LINK debug probe (JTAG/SWD) for STM32 microcontroller evaluation and discovery boards
- Read, display and programming of binary files, ELF files, Intel hex files and Motorola Srecord files
- Read and display of STM32 microcontroller memory content
- Command line and graphical user interface
- Generation of secure firmware using the STM32 Trusted Package Creator tool

3.12.2

Known problems and limitations

- The use of the UART bootloader prevents from increasing the RDP level and from programming the second bank of option bytes, or from enabling the two user secure areas simultaneously on STM32H7 microcontrollers.
- Programming over USB bootloader is not reliable with USB2.0 for some devices.
- The erase command is not supported with data EEPROM on STM32L0 and STM32L1.
- External memory programming is only available with ST-LINK.
- Installing multiple instances of the same version of the tool in the same directory under Windows® leads to issues when uninstalling.

Revision history

Table 13. Document revision history

Date	Version	Changes
24-Nov-2017	1	Initial release.
12-Apr-2018	2	Part number changed to STM32CubeProg.
19-Jul-2018	3	Added information related to STM32CubeProg 1.1.0.
7-Sep-2018	4	Added information related to STM32CubeProg 1.2.0.
15-Oct-2018	5	Added information related to STM32CubeProg 1.2.1.
15-Nov-2018	6	Added information related to STM32CubeProg 1.3.0.
20-Dec-2018	7	Added information related to STM32CubeProg 1.4.0.
25-Feb-2019	8	Added information related to STM32CubeProg 2.0.0.
23-Apr-2019	9	Added information related to STM32CubeProg 2.1.0.
11-Oct-2019	10	Added information related to STM32CubeProg 2.2.0.
8-Nov-2019	11	Added information related to STM32CubeProg 2.2.1.
20-Dec-2019	12	Added information related to STM32CubeProg 2.3.0.
24-Feb-2020	13	Added information related to STM32CubeProg 2.4.0.
24-Jul-2020	14	Added information related to STM32CubeProg 2.5.0.

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