

## About this release note

This release note contains information about the latest version of the STM32 ST-LINK Utility software:

- New features
- Improvements
- Program corrections
- Known problems in current version

*Note:* The part number of STM32 ST-LINK Utility software is: STSW-LINK004.

## New features

### Version 3.1

- Added support of STM32F052 Entry-level Cortex™-M0 microcontrollers.
- Added support of STM32F401 series Cortex™-M4.
- Added support of "Connect to a device in low-power mode" option.

### Version 3.0

- Added support of custom loader for external memory.
- Displayed Printf data sent via SWO
- Added "File compare to device memory" feature in the CLI mode.

### Version 2.5

- Added support of STM32F42x/STM32F43x series Cortex™-M4
- Added support of drag-and-drop file opening
- Added HotPlug Connect feature (Connect to target without halt or reset)
- Added Context Menu and Edit Menu for Cut/Copy/Paste/Delete operation on file and device memory
- Added support of Memory LiveUpdate feature
- Added support of Find data feature (find in ASCII and HEX)
- Added support of Fill Memory feature (fill with Byte, Word or DoubleWord in file and device memory).

**Version 2.4**

- Added support of STM32 F3 series Cortex™-M4.
- Added support of STM32L medium density plus Cortex™-M3.
- Added support of STM32F050 Entry-level Cortex™-M0 microcontrollers.
- Comparison between two files (Hex, SREC or Bin files).
- Support of "Reset after programming" option.

**Version 2.3**

- Added support of STM32 F4 series Cortex™-M4 revision Z.
- Added support of STM32L Cortex™-M3 EEPROM data memory programming.
- Added support of STM32 F0 series Entry-level Cortex™-M0 microcontrollers.
- Save file in Intel Hex and Motorola S-record file format.
- Address TextBox replaced by a ComboBox with history saving.

**Version 2.2**

- Added support of STM32 F4 series of high-performance microcontrollers with DSP and FPU instructions.
- Added support of STM32W 32-bit RF microcontrollers.
- Added support of "Connect under reset" option.
- Flash modification via GUI and CLI commands.
- Added support of hardware reset in CLI mode.

**Version 2.1**

- ST-LINK/V2 support.
- Added support for STM32 F2 series microcontroller programming modes.
- Connected MCU revision ID Display.
- ST-LINK and ST-LINK/V2 firmware upgrade to V1J12S3 and V2J14S3, respectively.

**Version 2.0**

- Support of Intel Hex file and Motorola S-record file format.
- Command line interface.
- Automatic Mode: Programming and configuring STM32 devices in loop.
- Flash memory Blank Check.
- Compare the contents of the Flash memory with files.
- ST-LINK firmware upgrade to V1J11S3.

**Version 1.3**

- Added support for STM32 L1 ultralow power 32-bit microcontroller devices.
- Added support for STM32 F2 series microcontroller devices.

**Version 1.2**

- Added support of XL-density devices.

**Version 1.1**

- Added support of Serial Wire Debug (SWD) interface.

**Version 1.0**

- Initial release.

## Improvements

**Version 3.1**

- Enhancement of connection management.

**Version 3.0**

- Optimization of STM32 internal Flash memory programming and verification.

**Version 2.5**

- Enhancement of device memory modification from the memory grid.

**Version 2.4**

- Enhanced display of File/Flash comparison.

**Version 2.3**

- Added Tooltip in the option bytes window.
- Enable/Disable progress bar display in ST-LINK CLI (STM32 ST-LINK Utility command line interface).
- Added support of programming at unaligned addresses.
- Different error codes return for each type of problem in CLI mode.
- “Connect under reset” option is now available in JTAG mode.

**Version 2.2**

- -w8 and -w32 CLI commands are able to program Flash memory.
- The Flash memory can be modified from the GUI even when it is not erased.

**Version 2.1**

- Automatic MCU voltage check with ST-LINK/V2.

**Version 2.0**

- Faster switch between device memory display and file display.
- Connection management enhancement.
- Core status displayed in the MCU Core window.

**Version 1.3**

- Flash mass erase and Option bytes programming progress display.

**Version 1.2**

- Connection management enhancement.

**Version 1.1**

- Connection error management enhancement.
- Debug interface and connection status display.

**Version 1.0**

- Initial release.

## Program corrections

### Version 3.1

- Fix loading Hex files with option bytes section

### Version 3.0

- BFB2 bit is forced to '1' on all STM32L15xxC devices when programming the option byte.

### Version 2.5

- None.

### Version 2.4

- Fix STM32W108CC WRP granularity.
- Fix loading Hex file adjacent segments.
- Display R0 register in Core window.

### Version 2.3

- CLI return code issue fixed.

### Version 2.2

- None.

### Version 2.1

- Binary file save issue resolved with Windows7.

### Version 2.0

- Flash size is ignored for STM32 F2 series 32-bit microcontroller devices.

### Version 1.3

- None.

### Version 1.2

- None.

### Version 1.1

- Corrected "STM32 ST-LINK Utility user manual.pdf" name format at start Menu.

### Version 1.0

- Initial release.

## Known problems in current version

None.

## Customer support

Software released previously is documented internally and available upon request.

For more information, see the STM32 ST-LINK utility user manual (UM0892) and visit our website at [www.st.com](http://www.st.com).

## Revision history

**Table 1. Document revision history**

Date	Product Revision	Document Revision	Changes
01-Aug-2011	2.1	1	Initial release.
18-Oct-2011	2.2	2	Added <a href="#">Version 2.2</a> with support of STM32 F4 and STM32W series and attributes in <a href="#">New features</a> and <a href="#">Improvements</a> .
11-May-2012	2.3	3	Added <a href="#">Table 1: Applicable tools</a> . Added <a href="#">Version 2.4</a> with support of STM32 F0 series and attributes in <a href="#">Section : New features</a> and <a href="#">Section : Improvements</a> .
29-May-2012	2.3	4	Updated <a href="#">Section : New features</a> , <a href="#">Section : Improvements</a> and <a href="#">Section : Known problems in current version</a> .
05-Oct-2012	2.4	5	Updated <a href="#">Section : New features</a> , <a href="#">Section : Improvements</a> and <a href="#">Section : Program corrections</a> .
11-Jan-2013	2.5	6	Updated <a href="#">Section : New features</a> , <a href="#">Section : Improvements</a> , <a href="#">Section</a> and <a href="#">Section : Known problems in current version</a> .
29-Apr-2013	3.0	7	Updated disclaimer. Added information related to ST-Link release 3.0 in <a href="#">Section : New features</a> , <a href="#">Section : Improvements</a> , and <a href="#">Section : Program corrections</a> .
10-Jul-2013	3.1	8	Added information related to ST-Link release 3.1 in <a href="#">Section : New features</a> , <a href="#">Section : Improvements</a> and <a href="#">Section : Program corrections</a> . Deleted "Applicable tools" table and updated part number in cover page.

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