

STM32CubeIDE release v1.7.0

Introduction

This release note is updated periodically to keep abreast of **STM32CubeIDE** evolution, problems and limitations. Check the STMicroelectronics website at www.st.com/stm32softwaretools for the latest version. For the latest release summary, refer to Table 1.

Table 1. STM32CubeIDE v1.7.0 release summary

Type	Summary
Major release	<ul style="list-style-type: none"> Eclipse® update 2021-03 (Q1 release) with improved macOS® Big Sur support STM32CubeMX v6.3.0 integration RTOS support improvements: full call stack for all tasks in the <i>Debug</i> view New feature highlight in the <i>Information Center</i> Projectless debug support: debug is possible with an <code>elf</code> file and no STM32 project Thread-safe <code>malloc</code> solution

Customer support

For more information or help concerning STM32CubeIDE, contact the nearest STMicroelectronics sales office or use the ST community at community.st.com. 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/stm32cubeide.



1 General information

1.1 Overview

STM32CubeIDE is an integrated development environment (IDE) based on the Eclipse® framework. It is aimed at users developing embedded software in C/C++ for the STMicroelectronics STM32 products. It uses an enhanced GNU tool chain for STM32, based on *GNU Arm Embedded*. It has an integrated version of **STM32CubeMX** and **MCUFinder**, which allows easy project configuration as well as the generation of the corresponding initialization C code through a step-by-step process. Furthermore, **STM32CubeIDE** integrates the command-line version of **STM32CubeProgrammer (STM32CubeProg)** for Flash memory handling while using the ST-LINK GDB server. This allows the STM32 device programming through debug interfaces (JTAG and SWD).

STM32CubeIDE is based on the following technology, with STMicroelectronics-specific enhancements:

- Eclipse® 2021-03 and CDT™ version 10.2.0
- GNU Tools for STM32, based on *GNU Tools for Arm Embedded Processors 9-2020-q2-update 9.3.1 20200408 (release)*
- GNU GDB (GNU Tools for STM32 9-2020-q2-update) 8.1.0.20180315-git
- AdoptOpenJDK Runtime Environment (build 11.0.10+9, 64-bit)
- ST-LINK_gdbserver 5.9.0, supporting ST-LINK/V2 and ST-LINK/V3
- SEGGER J-Link GDB Server V7.22a
- Open On-Chip Debugger 0.11.0-rc2+dev-00044-g8340bb0

Windows® specific build tools:

- BusyBox v1.31.0.st_20200221-0903_longpath: `mkdir.exe, rm.exe, echo.exe`
- make-4.2.1_st_20200221-0903_longpath: `make.exe`

Linux® specific build tools:

- make-4.2.1_st_20200221-0903: `make`

macOS® specific build tools:

- make-4.2.1_st_20200221-0903: `make`

STM32CubeIDE supports STM32 32-bit products based on the Arm® Cortex® processor.

Note:

- *Eclipse is a registered trademark of the Eclipse foundation.*
- *macOS® is a trademark of Apple Inc. registered in the U.S. and other countries.*
- *Linux® is a registered trademark of Linus Torvalds.*
- *Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.*

arm

1.2 Host PC system requirements

Supported operating systems and architectures

- Windows® 7, 8, and 10: 64 bits (x64)
- Linux® (tested on Ubuntu® LTS 18.04, LTS 20.04, Fedora® 29 and Fedora® 31, 64 bits)
- macOS® 10.12 (Sierra), 10.14 (Mojave), 10.15 (Catalina)

Note:

- *Ubuntu® is a registered trademark of Canonical Ltd.*
- *Fedora® is a trademark of Red Hat, Inc.*
- *All other trademarks are the property of their respective owners.*

Memory and storage

- RAM: 4 Gbytes recommended
- Hard-disk space: 6 Gbytes of free space for non STM32 MPU OpenSTLinux developers, 15 Gbytes for STM32 MPU OpenSTLinux usage

1.3 Setup procedure

Refer to the *STM32CubeIDE installation guide* (UM2563), *STM32CubeIDE quick start guide* (UM2553), and *STM32CubeIDE user guide* (UM2609) available at www.st.com.

1.4 Licensing

STM32CubeIDE is delivered under the *Mix Ultimate Liberty+OSS+3rd-party V1* software license agreement (SLA0048).

The open-source and third-party software components used in the development of STM32CubeIDE and their licenses are listed in a zip file available from the product page in STMicroelectronics www.st.com web site.

Table 2 provides the description of the licenses of additional components in STM32CubeIDE.

Table 2. Complementary component licenses

Name	Version	Copyright	License	Detail
STLink-USB-Driver	-	STMicroelectronics	Proprietary	Refer to the global software license agreement
STLink-USB-Driver-lib	-	STMicroelectronics	Proprietary	Refer to the global software license agreement
ST-LINK Server	2.0.2-3	STMicroelectronics	Proprietary	Refer to the global software license agreement

1.5 Cross-selector data disclaimer

The information presented in the cross-reference tool is intended to help the users to narrow their search of STMicroelectronics products based on similarity to other available products. The information is based on data published by other semiconductor manufacturers and might contain errors. STMicroelectronics provides the information “as is” and does not make any representations or warranties as to its accuracy or suitability for any particular purpose. STMicroelectronics recommends that the users make their purchase decision based on their review of STMicroelectronics datasheets and other product documentation. Any pricing information is an estimate for budgetary purposes only.

2 STM32CubeIDE v1.7.0 release information

2.1 New feature

- Eclipse® update 2021-03 (Q1 release) with improved macOS® Big Sur support
- STM32CubeMX v6.3.0 integration
- RTOS support improvements: full call stack for all tasks in the *Debug* view
- New feature highlight in the *Information Center*
- Projectless debug support: debug is possible with an `elf` file and no STM32 project
- Thread-safe `malloc` solution

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

With STM32CubeIDE v1.5.0, the option “Disable thread-safe initialization of local static objects (`-fno-threadsafe-statics`)” has changed default value from “true” to “false”. This means that both Flash memory and RAM usages are slightly increased with respect to previous versions of STM32CubeIDE, with the benefit of removing a potential race condition in the embedded code. To preserve the old behavior, make sure that the checkbox for the option is checked under **[Project properties]>[C/C++ Build]>[Settings]>[Tool Settings]>[MCU G++ Compiler]>[Optimization]**.

2.2 Fixed issues

Refer to the STM32 microcontrollers wiki at wiki.st.com/stm32mcu/wiki/Category:STM32CubeIDE_errata.

2.3 Known problems and limitations

Refer to the STM32 microcontrollers wiki at wiki.st.com/stm32mcu/wiki/Category:STM32CubeIDE_errata.

3 Previous release information

3.1 STM32CubeIDE v1.6.1 release information

3.1.1 New feature

- [STM32CubeMX](#) v6.2.1 integration
- Updated to OpenSTLinux v3.0.0 including FIP image generation

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

With STM32CubeIDE v1.5.0, the option “Disable thread-safe initialization of local static objects (`-fno-threadsafe-statics`)” has changed default value from “true” to “false”. This means that both Flash memory and RAM usages are slightly increased with respect to previous versions of STM32CubeIDE, with the benefit of removing a potential race condition in the embedded code. To preserve the old behavior, make sure that the checkbox for the option is checked under **[Project properties]>[C/C++ Build]>[Settings]>[Tool Settings]>[MCU G++ Compiler]>[Optimization]**.

3.1.2 Fixed issues

Table 3. Main issues fixed in STM32CubeIDE v1.6.1

ID	Summary
101797	Updating the <code>.ioc</code> file no longer opens multiple project files on MPU projects.
102318	The <i>Manage Embedded Software</i> dialog now works correctly on macOS®.

3.2 STM32CubeIDE v1.6.0 release information

3.2.1 New feature

- [STM32CubeMX](#) v6.2.0 integration
- New GNU Tools for STM32 toolchain v9.3.1
- Toolchain selector extension allowing third-party GCC toolchain selection
- Azure® RTOS kernel aware debug
- Pinout compatible search feature
- STM32MP1 application/library user land development

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

With STM32CubeIDE v1.5.0, the option “Disable thread-safe initialization of local static objects (`-fno-threadsafe-statics`)” has changed default value from “true” to “false”. This means that both Flash memory and RAM usages are slightly increased with respect to previous versions of STM32CubeIDE, with the benefit of removing a potential race condition in the embedded code. To preserve the old behavior, make sure that the checkbox for the option is checked under **[Project properties]>[C/C++ Build]>[Settings]>[Tool Settings]>[MCU G++ Compiler]>[Optimization]**.

3.2.2 Fixed issues

Table 4. Main issues fixed in STM32CubeIDE v1.6.0

ID	Summary
88719	Build system improvements with respect to incremental builds. The build system now detects additional GUI option changes.
90364	Fixed issue with STM32CubeMX building libraries in the wrong order.
93375	Kubuntu®/Ubuntu®: Fixed issue with dependency on libwebkit2gtk-4.0-37 allowing proper rendering of the <i>Information Center</i> .
95784	Linux® tar.gz generic installer packages now report if the installation failed due to insufficient disk space.
96347	STM32CubeMX no longer reverts C++ projects to C projects upon the next code generate operation.
98703	STM32CubeIDE 1.6.0 bundles a new JRE™ supporting Java® 11 fixing issues with Eclipse® Marketplace plug-ins such as eGit.
98999	STM32H7 Series: fixed issue with missing memory regions in linker scripts.
99421	STM32WB30xx: fixed issue with memory region Ram_Shared being set to the wrong address.
99537	STM32Cube project generation outside the “default location” no longer cleans the folder in case of folder access permission issues.
99857	The <i>Toolchain Manager</i> supports Eclipse CDT™ projects.
100002	FreeRTOS™ and Azure® RTOS ThreadX debug views now support dark theme.
100209	Fixed issue leading to main.c being generated in the wrong folder for hierarchical projects.

3.3 STM32CubeIDE v1.5.1 release information

3.3.1 New feature

- STM32CubeMX v6.1.1 integration

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

Since STM32CubeIDE v1.5.0, the option “Disable thread-safe initialization of local static objects (-fno-threadsafe-statics)” has changed default value from “true” to “false”. This means that both Flash memory and RAM usages are slightly increased with respect to previous versions of STM32CubeIDE, with the benefit of removing a potential race condition in the embedded code. To preserve the old behavior, make sure that the checkbox for the option is checked under [Project properties]>[C/C++ Build]>[Settings]>[Tool Settings]>[MCU G++ Compiler]>[Optimization].

3.3.2 Fixed issues

Table 5. Main issues fixed in STM32CubeIDE v1.5.1

ID	Summary
97133	[STM32CubeMX] Baud rate calculator issue.

3.4 STM32CubeIDE v1.5.0 release information

3.4.1 New feature

- STM32CubeMX v6.1.0 integration

- Added the support for the STM32WL Series
- Extended the support for the STM32G0 Series to the new STM32G0Bxxx and STM32G0Cxxx devices
- Added FreeRTOS™ support
- Added the toolchain manager
- Improved OpenOCD
 - Live expressions
 - Serial Wire Viewer (SWV)
- Added the ability to write values in the *Live Expression* view and propagate to the target memory
- Extended the *SFRs* view with Arm® core registers
- Updated the Eclipse® platform
- Updated to OpenSTLinux 2.1
- Added Ubuntu® 20.04 support

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

With STM32CubeIDE v1.5.0, the option “Disable thread-safe initialization of local static objects (*-fno-threadsafe-statics*)” has changed default value from “true” to “false”. This means that both Flash memory and RAM usages are slightly increased with respect to previous versions of STM32CubeIDE, with the benefit of removing a potential race condition in the embedded code. To preserve the old behavior, make sure that the checkbox for the option is checked under **[Project properties]>[C/C++ Build]>[Settings]>[Tool Settings]>[MCU G++ Compiler]>[Optimization]**.

3.4.2 Fixed issues

Table 6. Main issues fixed in STM32CubeIDE v1.5.0

ID	Summary
89316	Debug configuration for STM32L4+ is missing low-power and watchdog selections for ST-LINK GDB server.
93098	Headless build script should return with the same exit code as sub-process.
93376	[Kubuntu] Installing STM32CubeIDE on Kubuntu® 20.04 leads to corrupt installation.

3.5 STM32CubeIDE v1.4.2 release information

3.5.1 New feature

- STM32CubeMX v6.0.1 integration

STM32CubeIDE v1.4.2 revisits the corrections of the issues quickly fixed in v1.4.1. It implements better solutions harmonized between STM32CubeMX stand-alone and IDE-integrated versions. STMicroelectronics recommends upgrading from v1.4.1 to v1.4.2.

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.4.x or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.5.2 Fixed issues

Table 7. Main issues fixed in STM32CubeIDE v1.4.2

ID	Summary
90615	[STM32CubeMX] Unexpected project data deletion when some utilities are used.

ID	Summary
90636	[STM32CubeMX] IRQ priorities for some "Non-System" IPs are set to minimal values after project migration.
90727	[STM32CubeIDE] Fixed issue with OpenOCD not being able to use with third-party debug probes.
90934	[STM32CubeMX] Some boards do not boot after enabling FreeRTOS™.

3.6 STM32CubeIDE v1.4.1 release information

This patch version provides a quick fix of some issues encountered in [STM32CubeMX v6.0.0](#) and with OpenOCD debug on third-party debug probes. There is no corresponding revision of the release note. The resulting STM32CubeIDE v1.4.1 release information is integrated within the STM32CubeIDE v1.4.2 release information.

3.7 STM32CubeIDE v1.4.0 release information

3.7.1 New feature

- [STM32CubeMX v6.0.0](#) integration
- Additional support for STM32MP1 devices: STM32 MPU OpenSTLinux 2.0 SDK and project support
- Additional support for STM32H7 devices
- Additional support for STM32G4 devices
- OpenOCD support improvements

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.2.0 or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.7.2 Fixed issues

Table 8. Main issues fixed in STM32CubeIDE v1.4.0

ID	Summary
47930 62821 87084	STM32CubeIDE Serial Wire Viewer selecting large amounts of data to copy to the clipboard no longer crashes STM32CubeIDE.
72289	Debugging a project using ST-LINK GDB server on a board and having multiple boards connected to the PC works if <i>Shared ST-LINK</i> is selected.
73302	An STM32MP1 project generated with STM32CubeMX can be debugged in both the engineering and production modes.
79065	STM32L5 projects are generated properly when FreeRTOS™ is activated.
79853	Using OpenOCD with ST-LINK checks and forces ST-LINK firmware update at debug launch.
85191	Improved <code>system.c</code> function <code>_sbrk</code> .

3.8 STM32CubeIDE v1.3.1 release information

3.8.1 New feature

- [STM32CubeMX v5.6.1](#) integration

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.2.0 or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.8.2 Fixed issues

Table 9. Main issues fixed in STM32CubeIDE v1.3.1

ID	Summary
79013	Changing the call order in the <i>Advanced Settings</i> tab can now be saved.
81455	It is now possible to save the DDR tuning configuration.

3.9 STM32CubeIDE v1.3.0 release information

3.9.1 New feature

- [STM32CubeMX](#) v5.6.0 integration
- Additional support for STM32WB devices
- Run configurations support, allowing the user to download an application and reset the target without launching a full debug session

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.2.0 or later versions. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.9.2 Fixed issues

Table 10. Main issues fixed in STM32CubeIDE v1.3.0

ID	Summary
63770	The Linux® installers no longer install any packages before the license agreement is accepted.
64277	The run configuration and [Run] button now allow the user to download and reset the device without launching a full debug session.
66769	Importing the <code>ioc</code> file created by stand-alone STM32CubeMX is now fully supported.
72960	Peripherals are correctly initialized when creating an STM32CubeIDE project for several STM32G4 boards.
72978	Now all STM32CubeIDE projects for STM32H7 boards can be built.
73657	Pin assignment in <code>ioc</code> -editor pinout view on STM32L5, STM32MP1 and STM32H7 devices now works and leads to a dirty <code>ioc</code> file no longer requiring the user to manually generate code with the <code>Alt + K</code> shortcut.
75322	It is now possible to adjust JTAG/SWD frequency through the UI for ST-LINK GDB server.
75927	Debug in low-power modes are now selectable in the debug configuration dialog when using ST-LINK GDB server.
75934	It is now possible to configure watchdog counters during debugging for ST-LINK GDB server.
76789	Fix for external Flash loaders. Added option <code>-external-init</code> to the ST-LINK GDB server. Use this option to call <code>Init()</code> after reset. Calling <code>Init()</code> was previously the default behavior.
80498	It is now possible to use absolute paths to <code>.elf</code> files in the debug configuration.

3.10 STM32CubeIDE v1.2.0 release information

3.10.1 New feature

- [STM32CubeMX](#) v5.5.0 integration
- Support for STM32L5 devices

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.2.0. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.10.2 Fixed issues

Table 11. Main issues fixed in STM32CubeIDE v1.2.0

ID	Summary
62132	The macOS® installer displays incompatible version dialog when installing the stlink-server package. This can safely be ignored.
66327	Updating field [HCLK] in tab <i>Clock Configuration</i> is difficult.
69113	Importing a project from an earlier version into the current one will hang STM32CubeIDE when opening the .ioc editor. This only affects macOS®.
69233	In the STM32CubeMX .ioc editor under [Project Manager]>[Code Generator], there is a [settings] button that is not yet implemented.
70529	Null Pointer Exception occurs when trying to create a new debug configuration on a hierarchical root project, selecting OpenOCD debug probe, and changing some options.
73310	For importing an MPU project, consult application note <i>Getting started with projects based on the STM32MP1 Series in STM32CubeIDE</i> (AN5360).
73521	For STM32H7 devices using OpenOCD, the Cortex®-M7 must launch the debug session first.
73635	Projects with a debug configuration from a previous version of STM32CubeIDE need to disable, click [apply], and then enable SWV and Live Expressions.
73652	ST-LINK GDB-server debugger may lose control over STM32H7 dual-core devices during reset operations. This is less prevalent if Flash loading is disabled. Preferably use multiple use case oriented debug configurations.
73785	ST-LINK GDB-server debugger may fail while attaching to a core in a low-power state, even if option <code>Halt all cores</code> is enabled. This is circumvented by waiting to attach to the core until the application has exited any low-power state.
73790	The [Reset] toolbar button might fail during a multi-core debug scenario. Restart of the debug session is then required.
73890	ST-LINK GDB-server does not work properly with the macOS® version of STM32CubeIDE. The use of OpenOCD or J-Link is required.
78587	STM32L5 empty projects have incorrect linker scripts.

3.11 STM32CubeIDE v1.1.0 release information

3.11.1 New feature

- STM32CubeMX v5.4.0 integration
- Support for STM32MP1 devices
- Beta support for STM32L5 devices⁽¹⁾
- Support for STM32H7 devices

1. Beta support only. Contact the local STMicroelectronics sales office or distributor (refer to www.st.com/content/st_com/en/contact-us.html) to get STM32CubeL5 MCU Package V0.7.0.

Important:

STMicroelectronics recommends that a new workspace is created for the work done with STM32CubeIDE v1.1.0. Existing projects made with a previous version of STM32CubeIDE must be imported and copied into the new workspace.

3.11.2 Fixed issues

Table 12. Main issues fixed in STM32CubeIDE v1.1.0

ID	Summary
64364	The [Help]>[Data refresher] can be invoked several times without pop-up dialog.
65331	The creation of static libraries with the option <code>add libraries as reference</code> leads to the unintended generation of the <code>Drivers</code> folder.
65482	Creating a <i>BOARD</i> project with <i>Code generator</i> options <code>add necessary library files as reference..</code> and <code>initialize all peripherals with default settings</code> can cause build errors if <i>BOARD</i> depends on the USB library.
66391	The <i>Generate code</i> operation re-includes excluded files in folders that are created by STM32CubeMX.
68131	The user cannot change <i>Application Structure</i> from <i>Basic</i> to <i>Advanced</i> or vice versa without losing user's code.
69380	When creating an empty project, the FPU is enabled in the build settings, but the project is generated without a <code>SystemInit</code> function to initialize FPU at run-time.
71371	Pre- and post-build steps, build configuration, and non-STM32CubeMX generated files inside project and others get deleted when project is regenerated.

3.12 STM32CubeIDE v1.0.2 release information

3.12.1 New feature

STM32CubeMX v5.3.0 integration.

3.12.2 Fixed issues

Table 13. Main issues fixed in STM32CubeIDE v1.0.2

ID	Summary
56619	Conditional breakpoints do not work. Fixed in ST-LINK and J-Link provided that <code>Live expressions</code> is enabled.
61897	On macOS®, the <code>ioc</code> editor does not show the <i>Peripheral categories</i> frame on the left side by default.
62712	Opening one <code>ioc</code> file and trying to open a second <code>ioc</code> file while the first one loads causes the IDE to crash.
65141	The uninstaller sometimes does not work on non-English Windows® installations.
65335	The font size menu is not available for <code>ioc</code> editor content.
65452	Changing from HAL to LL driver or vice versa in the <code>ioc</code> editor does not save the <code>ioc</code> file.
65458	The <code>USE_HAL_DRIVER</code> symbol is not properly removed when switching from HAL to LL driver, which can cause build failure.
66949	<i>TeamSynchronizing</i> perspective remains hidden after Git™ is installed.
67089	Creating a C project after having created a C++ project results in C++ nature set in all future projects in the active workspace.
67458	The <code>-u_printf_float</code> in [MCU Settings] generates a warning about being disabled despite being enabled.
67679	AI software pack projects are not generated properly.

3.13 STM32CubeIDE v1.0.1 release information

3.13.1 New feature

STM32CubeMX v5.2.1 integration including latest MCUFinder evolution.

3.13.2 Fixed issues

Table 14. Main issues fixed in STM32CubeIDE v1.0.1

ID	Summary
59230	X-CUBE-AI links properly.
65403 65897 67661	On Windows®: BusyBox <code>sh.exe pwd</code> command fixed.
66212	Fixed loss of source files upon regeneration of code with dependencies on STM32Cube Expansion Packages.
66986	Integrated STM32CubeMX 5.2.1 supporting latest <code>.ioc</code> file format.
67014	Fixed project nature warning message when importing SW4STM32 projects.
67155	Fixed <code>_estack</code> value on newly generated projects to be correctly aligned.
67664	Removed shortcut to non-existing <code>readme.txt</code> from Windows® start menu.

3.14 STM32CubeIDE v1.0.0 release information

3.14.1 Features

- Integration of STM32CubeMX that provides services for:
 - STM32 microcontroller selection
 - Pinout, clock, IP, and middleware configuration
 - Project creation and generation of the initialization code
- Based on Eclipse®/CDT, with support of Eclipse® add-ons
- GNU C/C++ for Arm® toolchain and GDB debugger:
 - GNU Arm Embedded
 - GNU tools for STM32, with enhancements compared to the standard toolchain
- Additional advanced features including:
 - Build Analyzer view
 - Static Stack Analyzer view
 - CPU core, IP register, and memory views
 - Live Expressions view
 - System analysis and real-time tracing views (SWV)
 - Fault Analyzer view
 - ITM software tracing
 - SFR view
- Support of STMicroelectronics ST-LINK/V2 and STLINK-V3:
 - ST-LINK_gdbserver 5.2.2
 - OpenOCD 0.10.0+dev00021-g524e8c8
- Support of SEGGER J-Link
 - SEGGER J-Link gdbserver v6.44c
- Import of projects from Atollic® TrueSTUDIO® and AC6 System Workbench for STM32

Revision history

Table 15. Document revision history

Date	Revision	Changes
19-Apr-2019	1	Initial release.
11-Jun-2019	2	Added information related to STM32CubeIDE v1.0.1: <ul style="list-style-type: none"> STM32CubeIDE v1.0.1 release information Cross-selector data disclaimer
16-Jul-2019	3	Added information related to STM32CubeIDE v1.0.2: <ul style="list-style-type: none"> STM32CubeIDE v1.0.2 release information
15-Oct-2019	4	Added information related to STM32CubeIDE v1.1.0: <ul style="list-style-type: none"> STM32CubeIDE v1.1.0 release information
8-Jan-2020	5	Added information related to STM32CubeIDE v1.2.0: <ul style="list-style-type: none"> STM32CubeIDE v1.2.0 release information
20-Feb-2020	6	Added information related to STM32CubeIDE v1.3.0: <ul style="list-style-type: none"> STM32CubeIDE v1.3.0 release information
10-Apr-2020	7	Added information related to STM32CubeIDE v1.3.1: <ul style="list-style-type: none"> STM32CubeIDE v1.3.1 release information
27-Jul-2020	8	Added information related to STM32CubeIDE v1.4.0: <ul style="list-style-type: none"> STM32CubeIDE v1.4.0 release information Updated Overview and Host PC system requirements
20-Aug-2020	9	Added information related to STM32CubeIDE v1.4.1 and v1.4.2: <ul style="list-style-type: none"> STM32CubeIDE v1.4.1 release information STM32CubeIDE v1.4.2 release information
17-Nov-2020	10	Added information related to STM32CubeIDE v1.5.0: <ul style="list-style-type: none"> STM32CubeIDE v1.5.0 release information
17-Dec-2020	11	Added information related to STM32CubeIDE v1.5.1: <ul style="list-style-type: none"> STM32CubeIDE v1.5.1 release information
18-Feb-2021	12	Added information related to STM32CubeIDE v1.6.0: <ul style="list-style-type: none"> STM32CubeIDE v1.6.0 release information
25-Mar-2021	13	Added information related to STM32CubeIDE v1.6.1: <ul style="list-style-type: none"> STM32CubeIDE v1.6.1 release information
5-Jul-2021	14	Added information related to STM32CubeIDE v1.7.0: <ul style="list-style-type: none"> STM32CubeIDE v1.7.0 release information

Contents

1	General information	2
1.1	Overview	2
1.2	Host PC system requirements	2
1.3	Setup procedure	3
1.4	Licensing	3
1.5	Cross-selector data disclaimer	3
2	STM32CubeIDE v1.7.0 release information	4
2.1	New feature	4
2.2	Fixed issues	4
2.3	Known problems and limitations	4
3	Previous release information	5
3.1	STM32CubeIDE v1.6.1 release information	5
3.1.1	New feature	5
3.1.2	Fixed issues	5
3.2	STM32CubeIDE v1.6.0 release information	5
3.2.1	New feature	5
3.2.2	Fixed issues	6
3.3	STM32CubeIDE v1.5.1 release information	6
3.3.1	New feature	6
3.3.2	Fixed issues	6
3.4	STM32CubeIDE v1.5.0 release information	6
3.4.1	New feature	6
3.4.2	Fixed issues	7
3.5	STM32CubeIDE v1.4.2 release information	7
3.5.1	New feature	7
3.5.2	Fixed issues	7
3.6	STM32CubeIDE v1.4.1 release information	8
3.7	STM32CubeIDE v1.4.0 release information	8
3.7.1	New feature	8
3.7.2	Fixed issues	8
3.8	STM32CubeIDE v1.3.1 release information	8
3.8.1	New feature	8
3.8.2	Fixed issues	9
3.9	STM32CubeIDE v1.3.0 release information	9
3.9.1	New feature	9

3.9.2	Fixed issues	9
3.10	STM32CubeIDE v1.2.0 release information.....	9
3.10.1	New feature	9
3.10.2	Fixed issues	10
3.11	STM32CubeIDE v1.1.0 release information.....	10
3.11.1	New feature	10
3.11.2	Fixed issues	11
3.12	STM32CubeIDE v1.0.2 release information.....	11
3.12.1	New feature	11
3.12.2	Fixed issues	11
3.13	STM32CubeIDE v1.0.1 release information.....	12
3.13.1	New feature	12
3.13.2	Fixed issues	12
3.14	STM32CubeIDE v1.0.0 release information.....	12
3.14.1	Features	12
Revision history	13

List of tables

Table 1.	STM32CubeIDE v1.7.0 release summary	1
Table 2.	Complementary component licenses	3
Table 3.	Main issues fixed in STM32CubeIDE v1.6.1	5
Table 4.	Main issues fixed in STM32CubeIDE v1.6.0	6
Table 5.	Main issues fixed in STM32CubeIDE v1.5.1	6
Table 6.	Main issues fixed in STM32CubeIDE v1.5.0	7
Table 7.	Main issues fixed in STM32CubeIDE v1.4.2	7
Table 8.	Main issues fixed in STM32CubeIDE v1.4.0	8
Table 9.	Main issues fixed in STM32CubeIDE v1.3.1	9
Table 10.	Main issues fixed in STM32CubeIDE v1.3.0	9
Table 11.	Main issues fixed in STM32CubeIDE v1.2.0	10
Table 12.	Main issues fixed in STM32CubeIDE v1.1.0	11
Table 13.	Main issues fixed in STM32CubeIDE v1.0.2	11
Table 14.	Main issues fixed in STM32CubeIDE v1.0.1	12
Table 15.	Document revision history	13

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2021 STMicroelectronics – All rights reserved