Eclipse for ModusToolbox™ release notes

Version 2026.9

About this document

Scope and purpose

This document describes the features and changes for the Eclipse for ModusToolbox™ IDE.

ModusToolbox™ software is a set of tools that enable you to integrate our devices into your existing development methodology. ModusToolbox™ software consists of various libraries and middleware on GitHub, as well as an IDE and tools package installed on your computer.

Reference documents

Refer to the following documents for more information as needed:

- Eclipse for ModusToolbox™ user guide
- ModusToolbox™ tools package user guide
- ModusToolbox™ software installation guide
- Training material on GitHub

Table of contents

1 Version changes 3

1.1 2026.9 3
1.2 2026.3 3
1.3 2026.1 4
1.4 2025.8 4
1.5 2025.4 4
1.6 3.4.0 4

2 What's included 6

2.1 Supported host operating systems 6
2.2 Supported toolchains 6
2.3 Open source 6

3 Known issues 7

1 Version changes

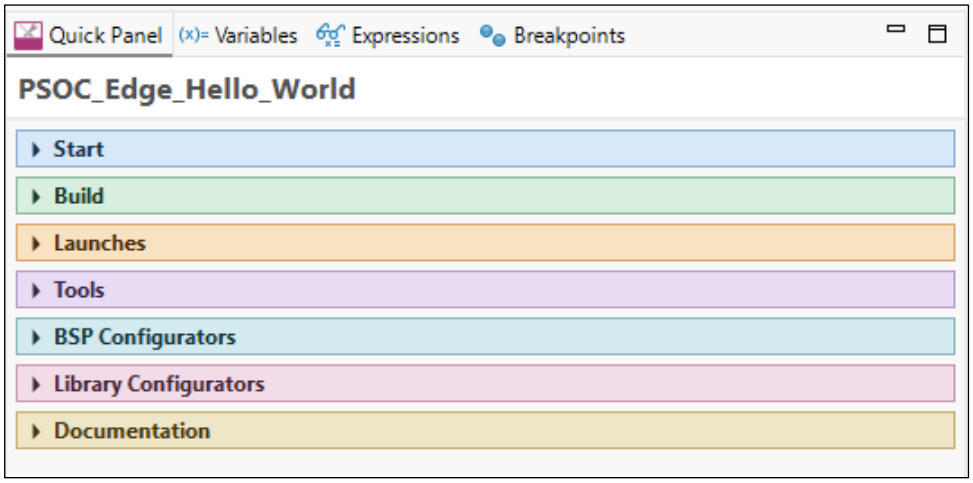
These are the changes made to Eclipse since it became a separate installable asset in ModusToolbox™.

1.1 2026.9

This release is a limited update focused on a handful of high-value improvements to the Quick Panel and enhancing the overall user experience.

Quick Panel

- Updated the Quick Panel to display the selected project name in the title. Child projects display the parent and child names in the format `<parent> > <child>`.
- Updated the Quick Panel to use fixed sections for Start, Build, Launches, Tools, BSP Configurators, Library Configurators, and Documentation.



- Removed project names from section headers and added a distinct color palette to make the sections easier to identify.
- Updated the default section expansion behavior. When no projects are open, only Start is expanded. When one or more projects are open, Build and Launches are expanded.
- Improved Quick Panel icons so they remain visible and transparent at supported display zoom levels.
- Landing page added to Documentation section.

Other changes

- Updated the Eclipse launcher to use the Java runtime downloaded by the build environment.

1.2 2026.3

- Fixed a defect where J-Link launch configurations became broken after restarting Eclipse.
- There is a new "launch" item in the Quick Panel called **Advanced KitProg3 Programming**, which is used to launch the ModusToolbox™ Programmer with the device and a HEX file already selected and configured for you. It also passes a number of parameters for configuring QSPI, sflash, and other features specific for different device families. You must build your application before using this item.

  Note: Additionally, there was an update to Eclipse for ModusToolbox™ available through the Setup program, plus updates to documentation in HTML available on the web here: https://documentation.infineon.com/modustoolbox/

Version changes

1.3 2026.1

- Dropped support for ModusToolbox™ 2.X and older.

1.4 2025.8

- Debugging will not work for Eclipse when used on Intel-based devices running macOS. We recommend using a different IDE such as Visual Studio Code. Intel-based macOS devices will no longer be supported using Eclipse for ModusToolbox™.
- The updated IntelliSense uses the newer Eclipse "TM4E" text editor; some keyboard shortcuts may be different including:
  - Add/Remove Block Comment
  - Toggle Line Comment

  See **Preferences > General > Keys** for the shortcut for your OS.
- Re-enabled 'Open Declaration' context menu entry.
- Enabled line numbers by default.
- Changed directions to rename multi-core applications; updated user guide.

1.5 2025.4

- Version is now for Eclipse and no longer the same as the tools package.
- Improved Quick Panel load times when swapping between a project and its shared content library.
- Improved color contrast of text in the ModusToolbox™ Console when using the 'Dark' Eclipse theme.
- Improved warning messages and logging when encountering some errors.
- Added Clangd (19.1.2) to installation package.
- Added LSP CDT editor support with Clangd code analysis.
  - Supports all ModusToolbox™ 3.X projects.
  - Legacy ModusToolbox™ projects will continue to use Eclipse's built-in Compilation Database for code analysis.
  - Compatibility with tools package 3.4.0

    Eclipse for ModusToolbox™ has updated its IntelliSense. When paired with ModusToolbox™ Tools package 3.4 or earlier the new IntelliSense works for all application code, but it will not handle system headers.
    - "Go to" declaration will not work for functions like printf.
    - Functions like printf will be erroneously highlighted in red by the text editor, but will not cause problems for a real build.
    - To mitigate, turn off error markers in the text editor: **Preferences > General > Editors > Text Editors > Annotations > Errors**

1.6 3.4.0

- Split Eclipse from ModusToolbox™ tools package, allowing individual install via the ModusToolbox™ Setup program.
- Added Eclipse support for retrieving the tools path from the Infineon Developer Center (IDC) JSON files.
- Added Eclipse support for retrieving docs from either the ModusToolbox™ docs or the Eclipse docs directories.

Version changes

- Added Dashboard support, Dashboard will be able to locate Eclipse when installed in a default install location.

2 What's included

2.1 Supported host operating systems

OS	Supported	Recommended (full testing)
Windows	11	11
macOS (Intel Macs)	**not supported**	**not supported**
macOS (ARM Macs)	Sonoma, Sequoia, Tahoe (natively)	Tahoe
Linux	22.04, 24.04 LTS, 25.10	24.04 LTS

2.2 Supported toolchains

The GCC Arm Embedded toolchain GCC 11.3 and GCC 14 are provided as separate packages to install via the Setup program in addition to the ModusToolbox™ tools package. These toolchains have no use restrictions and do not require license activation (it is distributed under the terms of the GNU Public License).

The ModusToolbox™ system also supports these toolchains for most applications and devices (see the application *README.md* file for applicable support) that you can install separately:

- Arm compiler v6 or newer (Windows and Linux hosts) (developer.arm.com)
- IAR Embedded Workbench v9 or newer (Windows only) (iar.com)
- LLVM 18.1.3 or newer (github.com/ARM-software/LLVM-embedded-toolchain-for-Arm/)

2.3 Open source

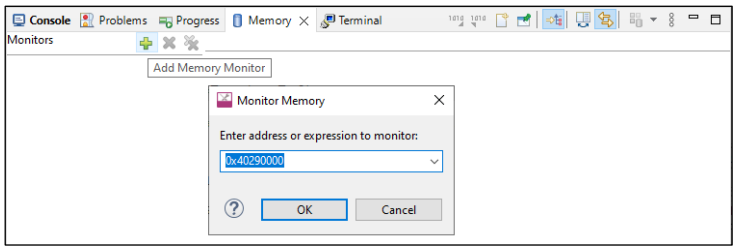
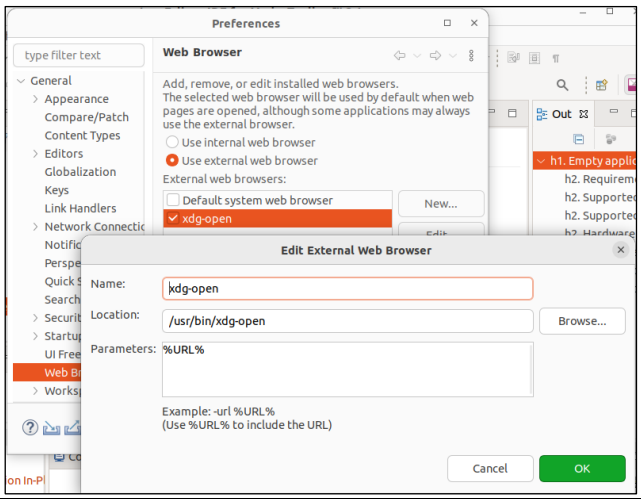
Portions of this software are licensed under free and/or open source licenses such as the GNU General Public License. Such free and/or open source software is subject to the applicable license agreement and not our license agreement covering this software package. The applicable license agreements are available online:

https://www.infineon.com/cms/en/design-support/software/free-and-open-source-software-foss/modustoolbox-foss-packages/

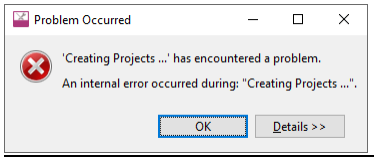
3 Known issues

Problem	Workaround
If you have a file open in your editing view and you double click on an issue from the 'Problems' window, it may open a second editor pointing to the same file. This can cause problems where you have divergent edits in two different editors.	None. Be aware of this issue and close one of the editors before applying any changes to your source file.
You may see "Unable to parse <tool> version from path" errors. Eclipse for ModusToolbox™ needs to know the version of tool it is using. It tries to parse that information from the directory name or content and fails.	To work around this issue, do one of the following: • Reinstall the tool with the default tool name. • Set a make variable in the Makefile to the tool path (for example, CY_COMPILER_GCC_ARM_DIR=...).
In some cases, configurators and documentation links will no longer show up in the Quick Panel after a rename.	To work around this issue, restart Eclipse.
In the Eclipse IDE for ModusToolbox™, when debugging multi-threaded applications, such as those using FreeRTOS, clicking the Restart icon causes the new main thread to be assigned the next available thread ID instead of starting from ID 1.	No workaround is available because this behavior is specific to the GDB client.
Launching Project Creator from Eclipse intermittently generates the following error: Unable to detect Project Creator startup after 10000 ms. If this problem continues, try starting Project Creator stand-alone, then import the project using ModusToolbox import. And then Project Creator eventually loads.	Close Project Creator and launch it again. The error should not be generated again.
In the Eclipse IDE for ModusToolbox™ when setting TOOLCHAIN=ARM, the call stack does not show while debugging some multithreaded applications (e.g., applications that use FreeRTOS).	Add the `CFLAGS+=-fno-omit-frame-pointer` compiler flag to the application. You can do this in the application Makefile or in Eclipse under **Properties > C/C++ Build > Behavior> Build arguments**.
When you upgrade a workspace that was created using ModusToolbox™3.1 or prior, you'll see a warning that your projects do not have explicit encoding set.	To fix this, right click on each warning message and select **Quick Fix** in the context menu. Select the **Set project encoding to** '**UTF-**8' fix and click **Finish**.
When you upgrade a workspace that was created using ModusToolbox™3.1 or prior, your projects build using one build job.	1. Select a project/application. 2. Open project's/application's properties selecting **Project > Properties** from the main menu. 3. Select **C/C++ Build** tab in the left pane. 4. Select **Behavior** tab in the right pane. 5. Add either `-jN`, where N is a number of desired parallel build jobs, or `${cy_build_jobs}` dynamic variable in the **Build Arguments** field.
After you rename a project, if you quickly try to rename it again you may get an error.	Wait until renaming finishes before initiating another renaming. The project itself is not broken. Only its representation in Eclipse may break. To fix this, remove the project, import and rename it again.
When you run Eclipse IDE for ModusToolbox™ from a terminal window on Ubuntu you get notifications about SLF4J, GLib and SWT GDBus failures.	Ignore these messages. These are Eclipse issues that do not impact Eclipse IDE for ModusToolbox™ functionality.

Known issues

Problem	Workaround
When you left-click on a project that is not currently selected and then quickly right-click on it and select the **ModusToolbox™** item, the context menu is empty.	Left-click to select the project and wait until the Quick Panel refreshes before right-clicking it to open the context menu. This issue will be addressed in a future release.
While debugging, if you try to export memory values to a file by selecting an item in the **Peripherals** tab, the values in the file will be all zeroes.	This is an Eclipse Embedded CDT issue. To get a correct export file, add the Address of the Peripheral directly to Memory window, and then use the export feature. 
On Ubuntu 22.04, when opening documentation from the Project Explorer (right-click **Open with > Web Browser**), the file does not open.	Update the Web Browser settings under **Window > Preferences > General > Web Browser** to add your chosen browser or xdg-open as appropriate: 
On Ubuntu 22.04, when running the Eclipse IDE for ModusToolbox™, the launcher window may be truncated. This happens because Eclipse v4.28 has not been updated to address the problem.	Log out of Ubuntu, and then log in again using the Xorg option. 
When renaming a multi-core application in the Eclipse IDE, the core-processor subprojects become regular folders instead of project folders.	Right-click on each of the core process folders and select **Import as Project**. Each folder will become a project folder with the appropriate name. **Note**: After changing the folders to project folders, they retain the original application prefix name. You can rename them individually if you prefer. **Note**: The Eclipse IDE may display Indexer errors during the rename process. These errors usually go away when the rename process is complete.
After completing a build/clean for a multi-core application, the Eclipse IDE reports a C/C++ Indexer error message.	The error message doesn't impact functionality. Try restarting the Eclipse IDE to clear the message.

Known issues

Problem	Workaround
When using the Eclipse IDE on macOS, if you delete a multi-core application with several README.md files open in the editor/viewer, you may see the following error message: "Failed to create the part's controls."	None. This error message just means the markdown viewer is trying to read a file that has been deleted. This message doesn't impact functionality. Simply close the tab and proceed.
For BTSDK applications, various tools such as BTSpy and ClientControl are not available from the Eclipse IDE Quick Panel. This is due to the restructuring of the ModusToolbox™ version 3.0 build system and flow.	To open various tools, navigate to where they are located in the workspace and launch them manually. By default, all the tools are located under the *../mtb_shared* directory (relative to the code example directory). For example, BTSpy is located in the following path: *../mtb_shared/wiced_btsdk/tools/btsdk-utils* ClientControl is located in the following path: *../mtb_shared/wiced_btsdk/tools/btsdk-host-apps-bt-ble* Other tools are located in different subdirectories under *mtb_shared*. The BTSDK will be updated in a future release to move these tools into a pack so that they will be available in the Quick Panel again.
Exporting and importing a multi-core application with the Eclipse IDE doesn't work.	1. When Exporting a multi-core application using the Eclipse IDE, include only the main application folder, and exclude the core project folders and the *mtb_shared* folder. 2. If you exported the application as an archive, extract it, and then run Library Manager or `make getlibs`. 3. In Eclipse, use the **Import Existing Application In-Place** option. The Eclipse IDE for ModusToolbox™ user guide has been updated to include multi-core application instructions.
When importing an application in the Eclipse IDE using the **Import Existing Application In-Place** option, there may be an error: "An internal error occurred..." 	If possible, you should start with the Eclipse IDE to launch Project Creator and create an application. Using this flow, the process just works. In some cases, this error may occur because you're attempting to manually import an application in the same workspace/folder that already exists in Eclipse. To resolve this problem, use **Import > General > Existing Projects into Workspace**.
When using the Eclipse IDE, the context menu may show tools for the previously selected project rather than the project that was right-clicked.	Left-click to select the project and wait until the Quick Panel refreshes before right-clicking it to launch the context menu. This issue will be addressed in a future release.
When renaming a top-level “application,” it contains sub-projects (e.g., cm33-s, cm33-ns, cm55), these become plain folders. Additionally, the Quick Panel is affected since it cannot locate the project's appropriate tools and configurators.	To solve this issue, you must select each sub-project, right-click and select **Import as Project**, as described in the Eclipse for ModusToolbox™ user guide. When all sub-projects have been imported, then select **Refresh Quick Panel** in the Start section.

Trademarks
All referenced product or service names and trademarks are the property of their respective owners.

Edition 2026-09-11

Published by

Infineon Technologies AG

81726 Munich, Germany

© 2026 Infineon Technologies AG. All Rights Reserved.

Do you have a question about this document?

Email: erratum@infineon.com

Document reference

002-42830 Rev. *A

Important notice

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie")

With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of Infineon Technologies in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

Warnings

Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies' products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.