[Upgrade to Version]
e² studio Integrated Development Environment 2025-04

Outline

We have updated the e² studio integrated development environment from 2025-01 to 2025-04.

Major functional improvements and changes are as follows.

➢ Upgraded eclipse/CDT versions

➢ Improvements of Smart Configurator

➢ Improvements of Builder and Debugger features

For an overview of the product, refer to the following URL:

https://www.renesas.com/e2studio

1. Products to Be Updated

➢ e² studio versions from 2020-04 to 2025-01

To check the version of e² studio, click the [Help] menu of e² studio > [About e² studio] to open the dialog box.

2. Description

The main contents of the upgrade are described below. Refer to the release note below for details.
The release note is available in the [Documentation] list on the e² studio product page. It will be available from April 22nd.

https://www.renesas.com/search?keywords=R20UT5645

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to "What is new in 2025-04?" in the release note listed above.

2.1.1 New eclipse platform support

Updated eclipse platform and the version of CDT (C/C++ Development Tooling).
Please refer to the following documents for details.

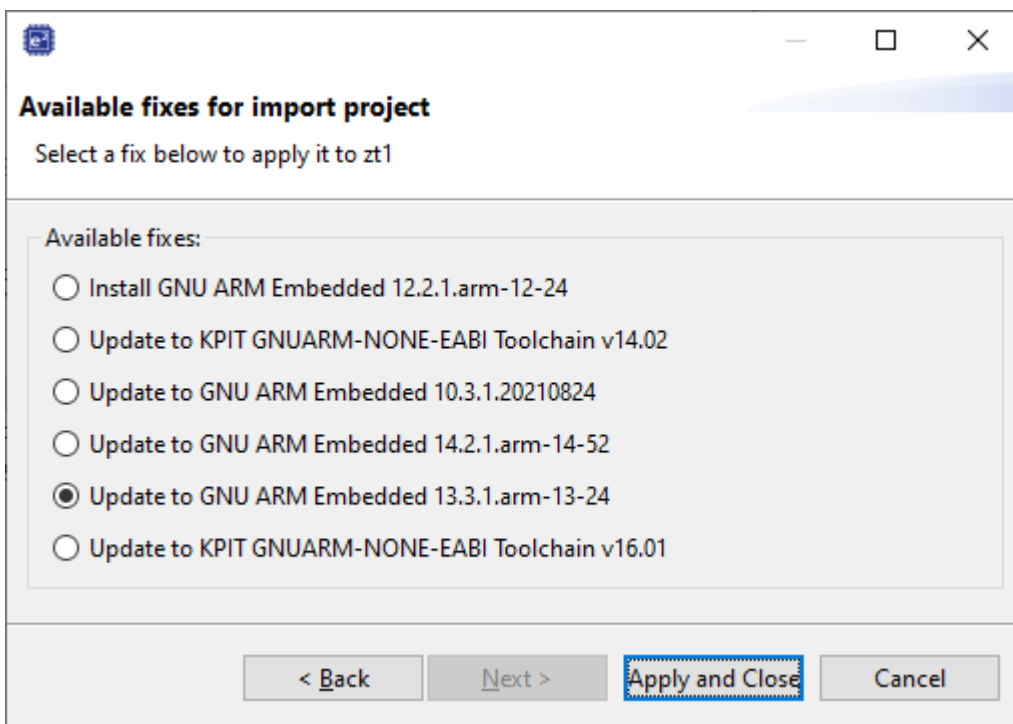| e² studio version	2025-01	2025-04	
eclipse	4.33(2024-09)	4.34(2024-12)	New and Noteworthy
JRE(JustJ)	21.0.4	21.0.6	JustJ JREs
OpenJFX	21.0.2	21.0.2	OpenJFX
CDT	11.6.1	11.6.1	CDT New & Noteworthy

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2.1.2 Improvements of Smart Configurator

➢ The following new versions of Smart Configurator are supported. Smart Configurator version is displayed in Overview tab of Configurator view. Refer to Release note of the versions for details.

✧ Smart Configurator for RX V2.25.0

Added text search feature in the Components tab to search for settings.

✧ Smart Configurator for RL78 V1.13.0

Updated device information. Added Code Generator for RL78/L13 in Linux and macOS edition.

✧ Smart Configurator for RISC-V MCU V1. 4.0

Improved features.

2.1.3 Improvements of Builder Features

The following improvements have been implemented.

➢ Improved to provide easy-to-understand choices for what to do if the toolchain or FSP version of the project is not in the target system when importing the project.

➢ Added CMake project generation for RISC-V MCU devices. The CMake project can be applied to Visual Studio Code environment with Renesas Build/Debug Extensions.

➢ Ready for RA Solution Project generation planned to be supported with FSP 6.0.
For the new features of Solution Projects, refer to RA FSP Web page after the release of 6.0.

2.1.4 Improvements of Debugger Features

The following improvements have been implemented.

➢ The feature to view RTOS threads by thread ID in Debug view of debugger is now available in RL78's FreeRTOS projects.

➢ RZ debugger for AArch64 cores now supports ThreadX (Azure RTOS) resource-viewing feature.

➢ RH850 Debugger for multi-core devices now supports FreeRTOS resource view.

➢ Upgraded GDB version of RH850 debuggers to 12.1, which supports Python 3.

➢ The time-measure feature is now available on RH850/U2B and later devices in Performance Analysis view of RH850 debugger.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2025-04 will be available from April 22nd.)

https://www.renesas.com/e2studio

The installer is available in the [Downloads] section in the [Documentation & Downloads] list.

Note 1: You cannot use "Upgrade" installation for e² studio 2024-07 and older (older than Java 17) versions. Newer e² studio versions should be installed to new location instead of using "Upgrade" installation.
The destination folder path should not include any multi-byte characters, extended ASCII (half byte character greater than 0x7f) characters or symbol characters other than "_"(underscore).

Note 2: Windows version of this product supports 64-bit Windows. This product does not work on 32-bit Windows.

Note 3: For FSP/SSP supported device families and groups (RA, RZ/T2x, RZ/N2x, RZ/A2x, RZ/A3x, RZ/G2x, RZ/G3x, RZ/V2x and Renesas Synergy™), installers are available which include the software packages.
Please refer to the following page for software packages and the installers :

Software - Middleware, Drivers, OS:
https://www.renesas.com/design-support/software

Revision History

Rev.	Date	Page	Summary
			Description
1.00	Apr. 20.25	-	First edition issued
1.01	May 16.25	2	Removed SC for RH850 and added RISC-V description in Chapter 2.1.2

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