

## Outline

We have updated the e<sup>2</sup> 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

- e<sup>2</sup> studio versions from 2020-04 to 2025-01

To check the version of e<sup>2</sup> studio, click the [Help] menu of e<sup>2</sup> studio > [About e<sup>2</sup> 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 e<sup>2</sup> studio product page. It will be available from April 22<sup>nd</sup>.

<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.

e <sup>2</sup> studio version	2025-01	2025-04	
eclipse	4.33(2024-09)	4.34(2024-12)	<a href="#">New and Noteworthy</a>
JRE(JustJ)	21.0.4	21.0.6	<a href="#">JustJ JREs</a>
OpenJFX	21.0.2	21.0.2	<a href="#">OpenJFX</a>
CDT	11.6.1	11.6.1	<a href="#">CDT New &amp; Noteworthy</a>

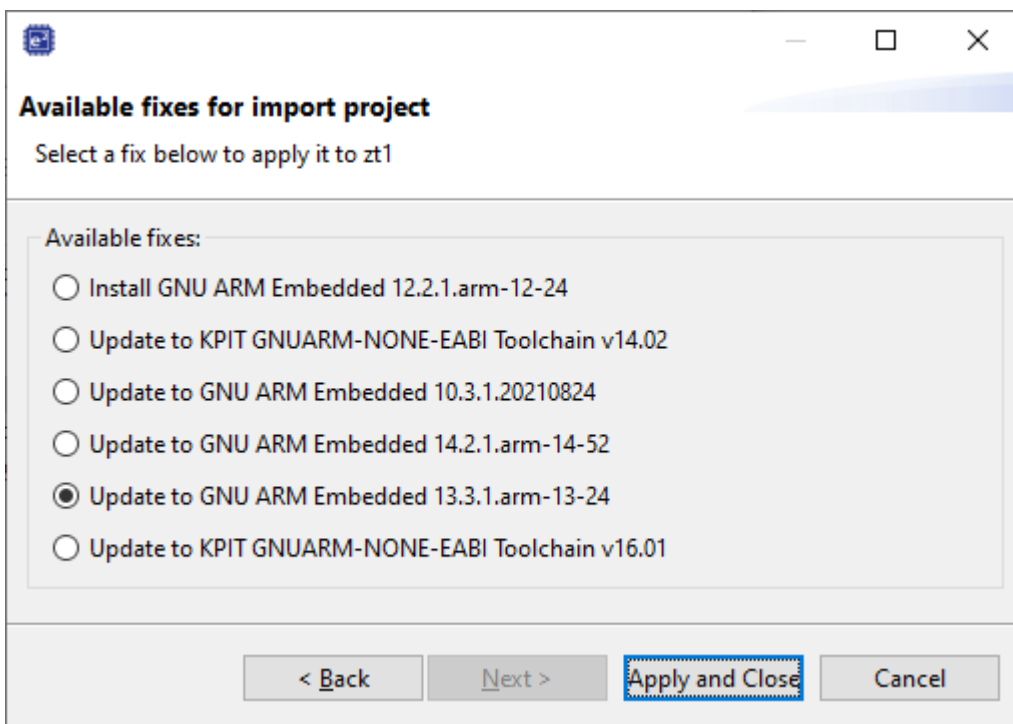
### 2.1.2 Improvements of Smart Configurator

- 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 RH850 V1.14.0  
Support RH850/U2B-E.

### 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 e<sup>2</sup> studio product page (the following URL) and install the program. (2025-04 will be available from April 22<sup>nd</sup>.)

<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 e<sup>2</sup> studio 2024-07 and older (older than Java 17) versions. Newer e<sup>2</sup> 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	Description	
		Page	Summary
1.00	Apr. 20.25	-	First edition issued

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