

[Upgrade to Version] e² studio Integrated Development Environment 2025-07

R20TS1143EJ0100
Rev.1.00
July 16, 2025

Outline

We have updated the e² studio integrated development environment from 2025-04.1 to 2025-07.

Major functional improvements and changes are as follows.

- Upgraded eclipse/CDT versions
- New compiler version support
- Improvements of FSP Solution project relevant features
- 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 2025-04.1

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 July 22nd.

<https://www.renesas.com/search?keywords=R20UT5682>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2025-07?” 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 ² studio version	2025-04.1	2025-07	
eclipse	4.34(2024-12)	4.35(2025-03)	New and Noteworthy
JRE(JustJ)	21.0.6	21.0.6	JustJ JREs
OpenJFX	21.0.2	21.0.2	OpenJFX
CDT	11.6.1	12.0.1	CDT New & Noteworthy

2.1.2 New compiler support

- Supported the following new compiler versions.
 - ✧ C Compiler Package for RL78 Family V1.15.01

2.1.3 Improvements of FSP Solution project support for RA

- Improved the following features.
 - ✧ Improved FSP Solution wizard of project generation.
 - ✧ Improved FSP Solution Editor interface.

2.1.4 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 V2.26.0
Configurator generates callback handler for software timer in FreeRTOS project.
 - ✧ Smart Configurator for RL78 V1.14.0
Improved driver (e.g. TAU) code to understandable and load effective description.
 - ✧ Smart Configurator for RH850 V1.14.0
Updated device information.
 - ✧ Smart Configurator for RZ V1.12.0
Updated device information.
 - ✧ Smart Configurator for RISC-V MCU V1. 5.0
Improved features.
- Added project specific configuration of Smart Configurator in addition to workspace configuration.
- Improved FSP Smart Configurator for RA multi-core projects.

2.1.5 Improvements of Builder Features

The following improvements have been implemented.

- Added converter feature of CC-RL project into LLVM for RL78 project.

2.1.6 Improvements of Debugger Features

The following improvements have been implemented.

- RX Simulator supports RTOS thread display in Debug view of debugger.
- Added toolbar buttons for operating all cores together during multi-core debugging.



3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program.
(2025-07 will be available from July 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	Description	
		Page	Summary
1.00	July 16.25	-	First edition issued

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