

[Upgrade to Version] e² studio Integrated Development Environment 2024-04

R20TS1009EJ0100
Rev.1.00
Apr. 16, 2024

Outline

We have updated the e² studio integrated development environment from 2024-01.1 to 2024-04.

Major functional improvements and changes are as follows.

- Upgraded eclipse/CDT versions
- New device support : DA14706
- Device file update: RL78 Family and RH850 Family
- Improvements of Smart Configurator
- Improvements of Builder and Debugger features
- Improvements in macOS version

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 2024-01.1

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 April 22nd.

<https://www.renesas.com/search?keywords=R20UT5467>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2024-04?” 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 ² studio version	2024-01.1	2024-04	
eclipse	4.29(2023-09)	4.30(2023-12)	Eclipse Project 4.30
JRE(JustJ)	17.0.8	17.0.10	JustJ JREs
OpenJFX	17.0.6	21.0.2	OpenJFX
CDT	11.3.1	11.4.0	CDT New & Noteworthy

2.1.2 Updates of Device Support

- Added support of DA14706 in e² studio 2024-04 as a part of DA1470x SDK project import and debug feature. Please refer to [DA1470x SDK10.2.4.44 Release Note](#) for details.
- Updated device files of RL78 Family: RL78/G15, RL78/G16, RL78/G23 and FGIC device groups.
- Updated device files of RH850 Family: RH850/U2A and RH850/U2B device groups.
- Updated register definitions in SVD and iodefines header files for RISC-V MCU devices.

2.1.3 Improvements of Smart Configurator

The following new versions of Smart Configurator are supported.

- ✧ Smart Configurator for RX V2.21.0
- ✧ Smart Configurator for RL78 V1.10.0
- ✧ Smart Configurator for RH850 V1.11.0
- ✧ Smart Configurator for RISC-V MCU V1.1.0

Please refer to each of Smart Configurator Release Note for details.

2.1.4 Improvements of Builder

The following improvements are implemented in e² studio 2024-04.

- Supported the following Renesas compilers and License Manager in Linux environment. Refer to attached document (Readme) in each product for installation. Stack Analysis view is available with the toolchains.
 - ✧ CC-RX V3.06.01
 - ✧ CC-RL V1.13.01
 - ✧ CC-RH V2.06.01
 - ✧ License Manager V2.07.00
- Added LLVM for Arm toolchain support for DA1453x SDK projects.
- Added -Ofast option support in the build configuration dialog for LLVM for Arm projects.

2.1.5 Improvements of Debugger

The following improvements are implemented in e² studio 2024-04.

- Upgraded GDB version to GDB 12.1 in debugger for RX and RL78 Family. As a result, Python version used by GDB is upgraded from 2.7 to 3.10.
- Added option in Debugger Configuration for RISC-V MCU to allow or disable memory read with temporary halt. This option is available for E2/E2 Lite and J-Link emulators.

2.1.6 Improvements in macOS version

The following improvements are implemented in macOS version of e² studio 2024-04.

- Supported macOS 14 (Sonoma).
- Added build and debug support for GCC for RX and LLVM for RL78 projects.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program.
(2024-04 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: When you have e² studio 2022-10 and older (older than Java 11) 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/V2x and Renesas Synergy™), use the installer that includes 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. 16.24	-	First edition issued

Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

The past news contents have been based on information at the time of publication. Now changed or invalid information may be included.

The URLs in the Tool News also may be subject to change or become invalid without prior notice.

Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,
Koto-ku, Tokyo 135-0061, Japan
www.renesas.com

Trademarks

Renesas and the Renesas logo are trademarks of Renesas Electronics Corporation. All trademarks and registered trademarks are the property of their respective owners.

Contact information

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:
www.renesas.com/contact/