

[Upgrade to Version]
e² studio Integrated Development Environment 2024-10

R20TS1061EJ0100
Rev.1.00
Oct. 20, 2024

Outline

We have updated the e² studio integrated development environment from 2024-07 to 2024-10.

Major functional improvements and changes are as follows.

- Upgraded eclipse/CDT versions
- Improvements of Smart Configurator
- Improvements of Smart Manual
- 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 2024-07

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 Oct. 22nd.

<https://www.renesas.com/search?keywords=R20UT5548>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2024-10?” 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 | 2024-07 | 2024-10 | |
|-------------------------------|---------------|---------------|--|
| eclipse | 4.31(2024-03) | 4.32(2024-06) | New and Noteworthy |
| JRE(JustJ) | 17.0.10 | 21.0.3 | JustJ JREs |
| OpenJFX | 21.0.2 | 21.0.2 | OpenJFX |
| CDT | 11.5.0 | 11.6.0 | CDT New & Noteworthy |

2.1.2 Improvements of Smart Configurator

- The following new versions of Smart Configurator are supported.
 - ✧ Smart Configurator for RX V2.23.0

Please refer to Smart Configurator Release Note for details.

- Linux and macOS versions of e² studio added support of peripheral code generation feature for RL78/L12 and RL78/L13.

2.1.3 Improvements of Smart Manual

The following improvements have been implemented.

- Started Smart Manual support for the following device groups:
 - ✧ RISC-V MCU (R9A02G021)
- Registers with such a cluster structure can be displayed in Smart Manual. For example, CANFD's Receive Message Buffer n Header Field 0 (RMBn.HF0) is defined as:

```
CANFD.RMB0.HF0
```

2.1.4 Improvements of Builder and Debugger Features

The following improvements have been implemented.

- Added support of Stack Analysis view for DA devices in GCC compiler projects.
- Improved Partner OS view to show more information about Renesas iTRON OS (RI600V4) resources.
- Added Excel file generation as Memory Usage view file export rather than multiple *.csv.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2024-10 will be available from October 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 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 | Oct. 20.24 | - | First edition issued |
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