

[Upgrade to Version]  
e<sup>2</sup> studio Integrated Development Environment 2024-07

R20TS1041EJ0100  
Rev.1.00  
July 20, 2024

Outline

We have updated the e<sup>2</sup> studio integrated development environment from 2024-04 to 2024-07.

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
- Improvements in Linux/macOS version

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 2024-07

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 July 22<sup>nd</sup>.

<https://www.renesas.com/search?keywords=R20UT5526>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2024-07?” 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 <sup>2</sup> studio version	2024-04	2024-07	
eclipse	4.30(2023-12)	4.31(2024-03)	<a href="#">New and Noteworthy</a>
JRE(JustJ)	17.0.10	17.0.10	<a href="#">JustJ JREs</a>
OpenJFX	21.0.2	21.0.2	<a href="#">OpenJFX</a>
CDT	11.4.0	11.5.0	<a href="#">CDT New &amp; Noteworthy</a>

## 2.1.2 Updates of Device Support

The following device support features are updated. Please refer to e<sup>2</sup> studio Release Note for supported device name.

- Updated device files of RLX Family: RX26x device groups.
- Updated device files of RL78 Family: RL78/F23 and RL78/F24 device groups.
- Added support for DA148xx device groups for SDK project import and debug.

## 2.1.3 Improvements of Smart Configurator

- The following new versions of Smart Configurator are supported.
  - ✧ Smart Configurator for RX V2.22.0
  - ✧ Smart Configurator for RL78 V1.11.0
  - ✧ Smart Configurator for RISC-V MCU V1.2.0

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

- Added support of Code Generation feature in LLVM for RL78 projects. The following device groups are supported:  
RL78/G12,G13,G14,L12,L13

## 2.1.4 Improvements of Smart Manual

Started Smart Manual support for the following device groups:

- DA1453x, DA1459x, DA1469x, DA1470x and DA16200

## 2.1.5 Improvements of Builder and Debugger Features

The following improvements have been implemented.

- Added RA project converter from GCC for Arm projects to LLVM for Arm projects via “Renesas FSP” context menu in Project Explorer.
- Task Analyzer is available for Renesas iTRON for RX (RI600V4) in Partner OS view.

## 2.1.6 Improvements of Linux and macOS Versions

The following improvements have been implemented.

- Started RISC-V MCU support in Linux versions with the features of build and debug. Supported Linux version toolchain of LLVM for RISC-V MCU. Debugger is supported with SEGGER J-Link. E2/E2 Lite emulator support is planned in future e<sup>2</sup> studio versions.
- Supported debugging features for DA1459x in Linux and macOS versions.

### 3. Updating Your Product

Download the installer from the e<sup>2</sup> studio product page (the following URL) and install the program. (2024-04 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: When you have e<sup>2</sup> studio 2022-10 and older (older than Java 11) 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/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	Jul. 20.24	-	First edition issued

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