

# [Upgrade to Version] e<sup>2</sup> studio Integrated Development Environment 2024-01

R20TS0980EJ0100  
Rev.1.00  
Jan. 16, 2024

## Outline

We have updated the e<sup>2</sup> studio integrated development environment from 2023-10 to 2024-01.

Major functional improvements and changes are as follows.

- macOS support for RA, DA Devices
- New device support : DA1458x group
- Improvements of Smart Configurator
- Improvements of Builder 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 2023-10

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 Jan 22<sup>nd</sup>.

<https://www.renesas.com/search?keywords=R20UT5406>

### 2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2024-01?” in the release note listed above.

#### 2.1.1 macOS (Apple Silicon) support for RA and DA Device Families

Started macOS support in e<sup>2</sup> studio 2024-01.

e<sup>2</sup> studio can be installed and used in Apple Silicon based macOS PCs (verified in macOS 13(Ventura)).

Please refer to e<sup>2</sup> studio Release Note for details.

#### 2.1.2 New devices support

Devices of DA1458x group has been supported in e<sup>2</sup> studio 2024-01.

Debug support is provided in e<sup>2</sup> studio. Use SDK of the device group for build environment of the devices for build operations. Please refer to [DA1453x, DA14585/6 SDK Release Notes v.6.0.20.1138](#) for details.

### 2.1.3 Improvements of FSP Configurator and Smart Configurator

The following new versions of Smart Configurator are supported. Started to support RH850 in e<sup>2</sup> studio 2024-01.

- ✧ Smart Configurator for RX V2.20.0
- ✧ Smart Configurator for RL78 V1.9.0
- ✧ Smart Configurator for RH850 V1.10.0

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

### 2.1.4 Improvements of Builder

The following improvements are implemented in e<sup>2</sup> studio 2024-01.

- Supported new versions of Renesas compilers
  - ✧ CC-RX V3.06.00
  - ✧ CC-RL V1.13.00
    - Library Generator is available with CC-RL V1.13.00 and later versions.
  - ✧ CC-RH V2.06.00
- Added support of -Oz optimization option in Arm GNU toolchain (12.1 and later versions) projects. -Oz behaves similarly to -Os (size optimization) including enabling most -O2 optimizations.

## 3. Updating Your Product

Download the installer from the e<sup>2</sup> studio product page (the following URL) and install the program.  
(2024-01 will be available from Jan 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 a 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	Jan. 16.24	-	First edition issued

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