

[Upgrade to Version]  
e<sup>2</sup> studio Integrated Development Environment 2023-07

R20TS0950EJ0100  
Rev.1.00  
July 16, 2023

Outline

We have updated the e<sup>2</sup> studio integrated development environment from 2023-04 to 2023-07.

Major functional improvements and changes are as follows.

- Upgrade version of Eclipse platform, Java and CDT
- Update of RL78 and RH850 device files
- Support of new versions of Smart Configurator for RX (2.18.0) and RL78(1.7.0)
- Improvements of Installer
- Improvements of debugger

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 2023-04

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 20<sup>th</sup>.

<https://www.renesas.com/search?keywords=R20UT5328>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2023-07?” in the release note listed above.

2.1.1 New eclipse platform support

2023-04 includes a new eclipse platform and new version of CDT (C/C++ Development Tooling). Please refer to the following documents for details.

e <sup>2</sup> studio version	2023-04	2023-07	
eclipse	4.26(2022-12)	4.27(2023-03)	<a href="#">Eclipse Project 4.27</a>
JRE(JustJ)	17.0.5	17.0.6	<a href="#">JustJ JREs</a>
OpenJFX	17.0.2	17.0.6	<a href="#">OpenJFX</a>
CDT	11.0.1	11.1.1	<a href="#">CDT New &amp; Noteworthy</a>

### 2.1.2 Updates of devices support

Device files of the following groups has been updated in e<sup>2</sup> studio 2023-07:

RL78/G16, RL78/G22, RH850/U2B6, RH850/U2B10, RH850/U2B24

### 2.1.3 New versions of Smart Configurator support

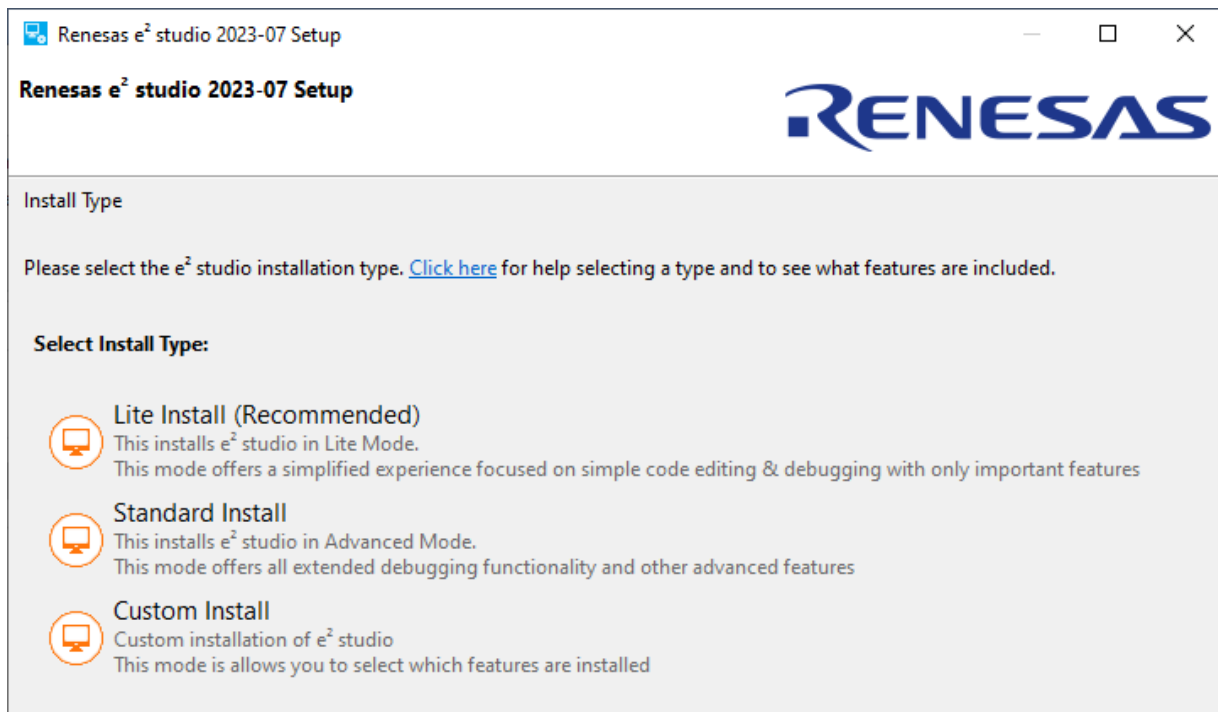
The following new version is supported. Please refer to each of Smart Configurator Release Note for details.

- Smart Configurator for RX 2.18.0
- Smart Configurator for RL78 1.7.0

### 2.1.4 Improvements of Installer

Lite and Standard mode are added on e<sup>2</sup> studio installer with simplified operations.

- ✧ Lite - Install minimum set of build and debug features. Recommended for users new to e<sup>2</sup> studio.
- ✧ Standard - Install advanced features such as optimization assistant and performance analysis.
- ✧ Custom - Conventional installer interface to install or exclude any components.

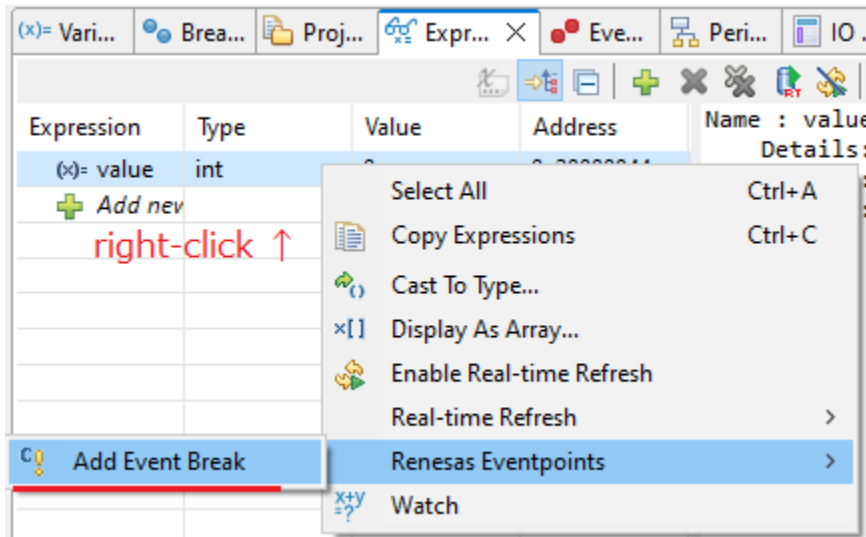


Note: You could add features later by running installer as Modify mode over Lite/Standard installed e<sup>2</sup> studio. Default Language pack(s) will be installed in Lite/Standard based on OS language locale. Please select Custom when you use other languages.

2.1.5 Improvement of Debugger

➤ Functional Improvements of EventPoint

Via context menu in Expressions or IO Registers view, you can quickly create an EventPoint configuration. The name of selected variable or register in the view will automatically be input as event condition.



➤ Improvements of IO Registers view

In addition to XML and HTML, **text file export** is supported in IO Register view. This feature export view contents such as register name, register value and address.

You can also copy the contents to clipboard via "Copy" context menu opened over selected registers in the view.

➤ Upgrade of GDB (for Arm-core based device families: RA, RZ, Synergy, DA)

GDB has been upgraded from 7.8 (32bit) to 12.1 (64bit) in e<sup>2</sup> studio 2023-07. Now GDB supports Python3.

### 3. Updating Your Product

Download the installer from the e<sup>2</sup> studio product page (the following URL) and install the program. (2023-07 will be available from July 20<sup>th</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 versions, please **install e<sup>2</sup> studio 2023-07 to a new location** instead of using "Upgrade" installation.

Make sure that the folder path of the install destination does 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>

### 4. End of support for Windows 8.1

Windows 8.1 is no longer supported by Microsoft. Also, Windows 8.1 is no longer supported in e<sup>2</sup> studio 2023-07 and future version. Since e<sup>2</sup> studio is not evaluated with the OS version, potential problems may remain undetected.

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	July 16.23	-	First edition issued

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