

## Overview

We have updated the e<sup>2</sup> studio integrated development environment from 2021-10 to 2022-01.

Major functional improvements and changes are as follows.

- Upgrade versions of Eclipse platform and CDT (C/C++ Development Tooling)
- Support of new Renesas compiler products CC-RX V3.04.00 and CC-RL V1.11.00
- Support of RL78/F24 group
- Support of Smart Configurator for RX version 2.12.0

For an overview of the product, refer to the following URL:

<https://www.renesas.com/e2studio>

## 1. Version to Be Updated

- e<sup>2</sup> studio versions from 2020-04 to 2021-10

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 of Upgrade

The main contents of the upgrade are described below. Refer to the release note below for details. The release note is available in the [Other] section in the [Documentation & Downloads] list on the e<sup>2</sup> studio product page. It will be available from Jan. 20<sup>th</sup>.

<https://www.renesas.com/search/keyword-search.html?q=R20UT5076&genre=document>

### 2.1 New functions, Improvements to Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2022-01?” in the release note listed above.

#### 2.1.1 New eclipse/CDT platform support

2022-01 includes a new eclipse platform and new version of CDT (C/C++ Development Tooling). Please refer to the following documents from [www.eclipse.org](http://www.eclipse.org) for further information about the eclipse/CDT updates.

e <sup>2</sup> studio version	2021-10	2022-01	
eclipse	4.20(2021-06)	4.21(2021-09)	<a href="#">eclipse – What’s New</a>
CDT	10.3.1	10.4.1	<a href="#">eclipse Wiki – CDT What’s New</a>

#### 2.1.2 New Renesas compilers support

The following new compiler versions are released and supported in e<sup>2</sup> studio 2022-01.

- C/C++ Compiler Package for RX Family V3.04.00
- C Compiler Package for RL78 Family V1.11.00

Please refer to Release Note and Tool News of each product for further information.

## 2.1.3 New device group support

Added support of RL78/F24 group. Project generation, build and debug features are available for the device group.

Note: RL78/G24 group has been supported since e<sup>2</sup> studio 2021-10.

## 2.1.4 Improvements of Smart Configurator for RX Family

Added support of Smart Configurator for RX version 2.12.0.

## 2.1.5 Improvements of builder

- Added collaborative operation between linker and compiler option configuration for CC-RX and CC-RL projects.

When linker optimization was enabled, builder automatically sets `-goptimize` compiler option which is required to enable linker optimization.

- Stack Analysis view added support for LLVM for RL78 projects.

Stack Analysis view shows call tree with stack size of functions in the projects built with LLVM for RL78 toolchain.

## 2.1.6 Improvements of debugger

- Added support of synchronized debug for RH850 multi-core devices

This feature enables trigger break and run for multiple cores simultaneously.

- Improved user interface peripheral simulator for RL78 Family. The following windows are restored at the next time of launching simulator.

- ✧ Signal Data Editor

- ✧ Timing Chart

- ✧ I/O Panel

- ✧ Serial

- Added support devices of RL78/G23 up to 128pin products in current consumption feature of peripheral simulator for RL78 Family. The devices are also supported by “QE for current consumption”.
- Added support of Simplified I2C in SAU in peripheral simulator for RL78 Family

### 3. Updating Your Product

Download the installer from the e<sup>2</sup> studio product page (the following URL) and install the program. (2022-01 will be available from Jan. 20<sup>th</sup>.)

<https://www.renesas.com/e2studio>

The installer is available in the [Downloads] section in the [Documentation & Downloads] list.

Note 1: Do not overwrite-install the installed e<sup>2</sup> studio.

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: Use this product on a 64-bit Windows OS.

This product does not work on a 32-bit Windows OS.

Note 3: For RA family and Renesas Synergy™, use the following installer that includes the software packages:

RA Family <https://github.com/renesas/fsp/releases>

Renesas Synergy™ : <https://www.renesas.com/software-tool/e-studio-renesas-synergy>

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Jan.16.22	-	First edition issued

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**Corporate Headquarters**

TOYOSU FORESIA, 3- 2- 24 Toyosu,  
Koto-ku, Tokyo 135- 0061, Japan  
[www.renesas.com](http://www.renesas.com)

**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:  
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