[Upgrade to Version]
e² studio Integrated Development Environment 2024-04

Outline

We have updated the e² studio integrated development environment from 2024-01.1 to 2024-04.

Major functional improvements and changes are as follows.

➢ Upgraded eclipse/CDT versions

➢ New device support : DA14706

➢ Device file update: RL78 Family and RH850 Family

➢ Improvements of Smart Configurator

➢ Improvements of Builder and Debugger features

➢ Improvements in macOS version

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 2024-01.1

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 April 22nd.

https://www.renesas.com/search?keywords=R20UT5467

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to "What is new in 2024-04?" 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.

e² studio version	2024-01.1	2024-04	
eclipse	4.29(2023-09)	4.30(2023-12)	Eclipse Project 4.30
JRE(JustJ)	17.0.8	17.0.10	JustJ JREs
OpenJFX	17.0.6	21.0.2	OpenJFX
CDT	11.3.1	11.4.0	CDT New & Noteworthy

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2.1.2 Updates of Device Support

➢ Added support of DA14706 in e² studio 2024-04 as a part of DA1470x SDK project import and debug feature. Please refer to [DA1470x SDK10.2.4.44 Release Note](#) for details.

➢ Updated device files of RL78 Family: RL78/G15, RL78/G16, RL78/G23 and FGIC device groups.

➢ Updated device files of RH850 Family: RH850/U2A and RH850/U2B device groups.

➢ Updated register definitions in SVD and iodefine header files for RISC-V MCU devices.

2.1.3 Improvements of Smart Configurator

The following new versions of Smart Configurator are supported.

✧ Smart Configurator for RX V2.21.0

✧ Smart Configurator for RL78 V1.10.0

✧ Smart Configurator for RH850 V1.11.0

✧ Smart Configurator for RISC-V MCU V1.1.0

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

2.1.4 Improvements of Builder

The following improvements are implemented in e² studio 2024-04.

➢ Supported the following Renesas compilers and License Manager in Linux environment. Refer to attached document (Readme) in each product for installation. Stack Analysis view is available with the toolchains.

✧ CC-RX V3.06.01

✧ CC-RL V1.13.01

✧ CC-RH V2.06.01

✧ License Manager V2.07.00

➢ Added LLVM for Arm toolchain support for DA1453x SDK projects.

➢ Added -Ofast option support in the build configuration dialog for LLVM for Arm projects.

2.1.5 Improvements of Debugger

The following improvements are implemented in e² studio 2024-04.

➢ Upgraded GDB version to GDB 12.1 in debugger for RX and RL78 Family. As a result, Python version used by GDB is upgraded from 2.7 to 3.10.

➢ Added option in Debugger Configuration for RISC-V MCU to allow or disable memory read with temporary halt. This option is available for E2/E2 Lite and J-Link emulators.

2.1.6 Improvements in macOS version

The following improvements are implemented in macOS version of e² studio 2024-04.

➢ Supported macOS 14 (Sonoma).

➢ Added build and debug support for GCC for RX and LLVM for RL78 projects.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2024-04 will be available from April 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 2022-10 and older (older than Java 11) 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/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

		Description	
Rev.	**Date**	**Page**	**Summary**
1.00	Apr. 16.24	-	First edition issued

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