

## Outline

We have updated the e<sup>2</sup> studio integrated development environment from V7.0.0 to V7.1.0. Support for a new device group in the RZ/A series; RZ/A2M has been added, and Smart Configurator as well as a new function, MMU view are now available for this device group.

Refer to the following URL for an overview of the product.

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

## 1. Products and Versions to Be Updated

### ➤ e<sup>2</sup> studio V7.0.0

To check the version of the e<sup>2</sup> studio, from the [Help] menu click on the [About e2 studio] to open the dialog.

## 2. Main Features of Update

The main features of the update are as follows. Refer to the release note for details.

The document will be available from October 5.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut4393ee>

### 2.1 Improved Functionality

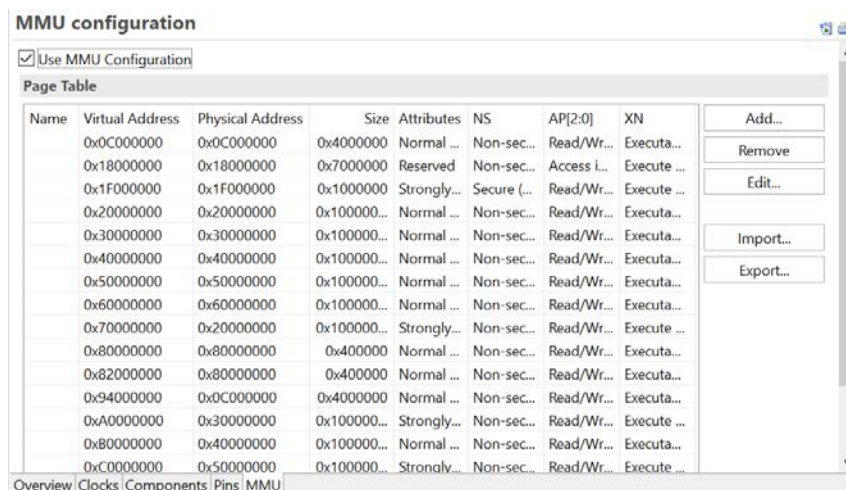
#### ➤ Expansion of the Smart Configurator function

- Smart Configurator is now available in the following device group.

RZ family: RZ/A2M group

- The basic configurations of the embedded application for the RZ/A2M device group; including the driver codes for the clocks, pins and MMUs can be generated using the dedicated GUI, and these settings can be applied to the source program. .

MMU configuration panel:



- Smart Configurator can change the sample codes for the drivers of peripheral functions and apply these configurations to the source program.

- Addition of the MMU view function
- We have added a "MMU view" function, which displays the MMU configurations and the controller status during debugging of RZ/A projects. You can easily view the status of the virtual/physical address as well as the register settings on the screen.

As the page table of the MMU is very complicated, it is difficult to check the setting values and status without using the MMU view.

For example, to check the MMU page table in a memory dump...

you can hardly recognize the configurations or which settings to edit...

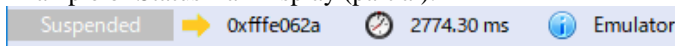
Address	0 - 3	4 - 7	8 - B	C - F
0000000020035000	0000000E	00000000	0020000E	00000000
0000000020035010	0040000E	00000000	0060000E	00000000
0000000020035020	0080000E	00000000	00A0000E	00000000
0000000020035030	00C0000E	00000000	00E0000E	00000000
0000000020035040	0100000E	00000000	0120000E	00000000
0000000020035050	0140000E	00000000	0160000E	00000000
0000000020035060	20058001	00000000	01A0000E	00000000

Simple and Organized  
Display with MMU view!

With MMU view, easy to check the configurations with the precomputed values based on the page table and register settings

- Addition of Measure Run-Break Time function
- As with the Run-Break timer function of the CS+, e<sup>2</sup> studio now has a function to display the measurement result of the execution time from the recent start point to the breakpoint in the status bar. This enables you to measure the execution time easily without having to set the settings such as event timer .

Example of Status Bar Display (partial):



## 2.2 Addition of Supported Devices

Support for the following device group has been added. For the product names of the supported devices, refer to the release note.

- Support for the RZ/A2M group has been added. You can now create, build, and debug projects with these devices. Smart Configurator is also available as stated above.
- Support for the devices below has been added due to the update of the SEGGER J-Link Emulator driver.
  - In the RX651/65N device group, in addition to the products without the graphic controller, products equipped with the graphic controller (ROM size 1.5MB or more) is now supported.

## 3. Updating Your Product

Download the e<sup>2</sup> studio installer from the URL below.

(V7.1.0 will be available on October 5.)

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

Note 1: Read the notes on the download page before starting the installation. .

- 2: There are two types of installers; online installer (web installer) and offline installer. Use the offline installer if you are not connected to internet or you need to download a specific version other than the latest version.
- 3: Do not open a workspace used with a different version of e<sup>2</sup> studio with the newly installed e<sup>2</sup> studio. Create a new folder, specify it as a workspace and import the project from the original workspace.

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Oct. 01, 2018	-	First edition issued

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