

[Notes]

R20TS0198EJ0100

Rev.1.00

Sep. 1, 2017

## e<sup>2</sup> studio Smart Configurator Plug-in, Smart Configurator for RX

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### Outline

When using the e<sup>2</sup> studio Smart Configurator Plug-in and Smart Configurator for RX, note the following point.

1. When using the I<sup>2</sup>C bus interface in slave mode

## 1. When Using the I<sup>2</sup>C Bus Interface in Slave Mode

### 1.1 Applicable Products

- e<sup>2</sup> studio V6.0.0 (Smart Configurator Plug-in V1.2.0)
- RX Smart Configurator V1.2

### 1.2 Applicable MCUs

- RX family: RX130, RX64M, RX651, and RX65N groups

### 1.3 Details

When the I<sup>2</sup>C bus interface is used in slave mode, communication may not be performed correctly because the SCL synchronous circuit enable bit (SCLE) of the I<sup>2</sup>C bus function enable register (ICFER) is set to "0" in the code generated by the applicable product.

### 1.4 Conditions

The problem arises when a component in I<sup>2</sup>C slave mode of a code generation type is used.

### 1.5 Workaround

Set the SCL synchronous circuit enable bit (SCLE) of the I<sup>2</sup>C bus function enable register (ICFER) to "1" in the function in the following source file.

```
- Function in the source file "<I2C-slave-configuration-name>_user.c":  
  "void R_<I2C-slave-configuration-name>_Create_UserInit(void) "
```

The following is an example of the required modification for RX64M when *<I<sup>2</sup>C-slave-configuration-name>* is Config\_RIIC0 (initial value). The modification is shown in red.

Before modification:

```

/*****
* Function Name: R_Config_RIIC0_Create_UserInit
* Description  : This function adds user code after initializing
*               the RIIC0 bus interface
* Arguments    : None
* Return Value : None
*****/
void R_Config_RIIC0_Create_UserInit(void)
{
    /* Start user code for user init. Do not edit comment generated here */
    /* End user code. Do not edit comment generated here */
}

```

After modification:

```

/*****
* Function Name: R_Config_RIIC0_Create_UserInit
* Description  : This function adds user code after initializing
*               the RIIC0 bus interface
* Arguments    : None
* Return Value : None
*****/
void R_Config_RIIC0_Create_UserInit(void)
{
    /* Start user code for user init. Do not edit comment generated here */
    RIIC0_ICFER_BIT_SCLE = 1U;
    /* End user code. Do not edit comment generated here */
}

```

## 1.6 Schedule for Fixing the Problem

This problem will be fixed in the next version. (January 2018)

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Sep. 1, 2017	-	First edition issued

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