[Notes]

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

R20TS0579ES0100 Rev.1.00 May. 16, 2020

# Outline

When using the products in the title, note the following points.

- 1. When using Stop API in Continuous Scan Mode DSAD and Single Scan Mode DSAD components
- When Using Stop API in Continuous Scan Mode DSAD and Single Scan Mode DSAD Components
- 1.1 Applicable Products
  - ➤ e² studio V7.6.0 (Smart Configurator Plug-in V2.3.0) or later
  - Smart Configurator for RX V2.3.0 or later
- 1.2 Applicable Devices
  - RX family: RX23E-A group

#### 1.3 Details

When the inter-unit synchronized start function is enabled in Continuous Scan Mode DSAD or Single Scan Mode DSAD component, auto scan may not be stopped correctly because the generated code for Stop API is wrong.

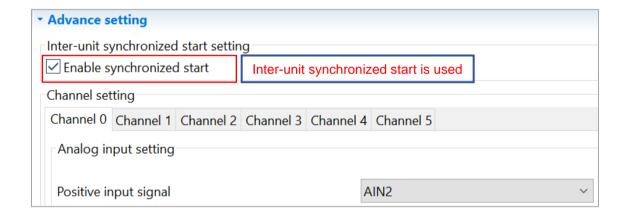


Figure 1.1 GUI configuration for enabling inter-unit synchronized start

```
* Function Name: R Config DSADO Stop
* Description : This function stops the DSADO converter
* Arguments
             : None
* Return Value : None
      ***********************
void R Config DSAD0 Stop(void)
                                        Code for disabling inter-unit
                                        synchronized start function was
   while (DSADO.SR.BIT.ACT == 1U)
                                        not generated out
       DSAD0.ADSTP.BIT.STOP = 1U;
       DSADO.ADST.BIT.START = 0U;
   }
   IEN(DSADO, ADIO) = OU;
   IR(DSAD0, ADI0) = OU;
   IEN (DSADO, SCANENDO) = OU;
   IR(DSADO, SCANENDO) = OU;
```

Figure 1.2 Wrong code in Stop API when inter-unit synchronized start is enabled

## 1.4 Workaround

Manually add code 'DSADn.MR.BIT.SYNCST = 0U' into the generated file (n =0, 1).

- Source file: "<Configuration-name>.c"
- Function: "void R\_<Configuration-name>\_Stop(void)"

The < Configuration-name > varies depending on the selected component of Continuous Scan Mode DSAD and Single Scan Mode DSAD.

Note: When code is generated again, generated code returns to the state before modification. Therefore, modify the source file each time you generate code.

Below is the example of modification when the < Configuration-name > is Config\_DSAD0 (initial value).

### Modification example:

```
/********************
* Function Name: R Config DSAD0 Stop
* Description : This function stops the DSADO converter
* Arguments
              : None
* Return Value : None
void R Config DSAD0 Stop(void)
   DSADO.MR.BIT.SYNCST = OU;
                                    A new line code for disabling the inter-unit
                                    synchronized start function is added
   while (DSAD0.SR.BIT.ACT == 1U)
       DSAD0.ADSTP.BIT.STOP = 1U;
       DSADO.ADST.BIT.START = OU;
   IEN(DSAD0, ADI0) = OU;
   IR(DSAD0, ADI0) = 0U;
   IEN(DSAD0, SCANEND0) = 0U;
   IR(DSAD0, SCANEND0) = 0U;
```

# 1.5 Schedule for Fixing the Problem

This problem will be fixed in the following versions. (Scheduled to be released in July 2020)

- ➢ e² studio 2020-07
- ➤ Smart Configurator for RX V2.6.0

# **Revision History**

		Description	
Rev.	Date	Page	Summary
1.00	May.16.20		First edition issued

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# **Corporate Headquarters**

TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan www.renesas.com

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