[Notes]
e^2 studio Smart Configurator Plug-in,
Smart Configurator for RX

R20TS1173ES0100
Rev.1.00
Sep.20, 2025

Outline

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

1. Notes on using DMA Controller component

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1.1 Applicable Products

- e^2 studio 2025-07 (Smart Configurator Plug-in V2.26.0) and before
- Smart Configurator for RX V2.26.0 and before

1.2 Applicable Devices

RX family: RX26T, RX64M, RX651, RX65N, RX660, RX66N, RX66T, RX671, RX71M, RX72M, RX72N, RX72T

1.3 Details

Codes added to the protection area of *r_dmac5_callback_transfer_escape_end()* and *r_dmac7_callback_transfer_escape_end()* function of “r_cg_dmac_user.c” file are not retained when the conditions specified in Section 1.4 are met.

1.4 Conditions

The issue occurs when a Smart Configurator project is configured with the following conditions:

- Create a project with affected device in Section 1.2
- Add DMA Controller component using channel 4 and channel 5 or 7
- Set Transfer mode as Repeat mode or Block mode for both configurations
- Enable interrupt on 1 repeat / block size transfer complete for both configurations
- Generate Code
- Add user codes to the protection area of *r_dmac5_callback_transfer_escape_end()* or *r_dmac7_callback_transfer_escape_end()*
- Generate Code

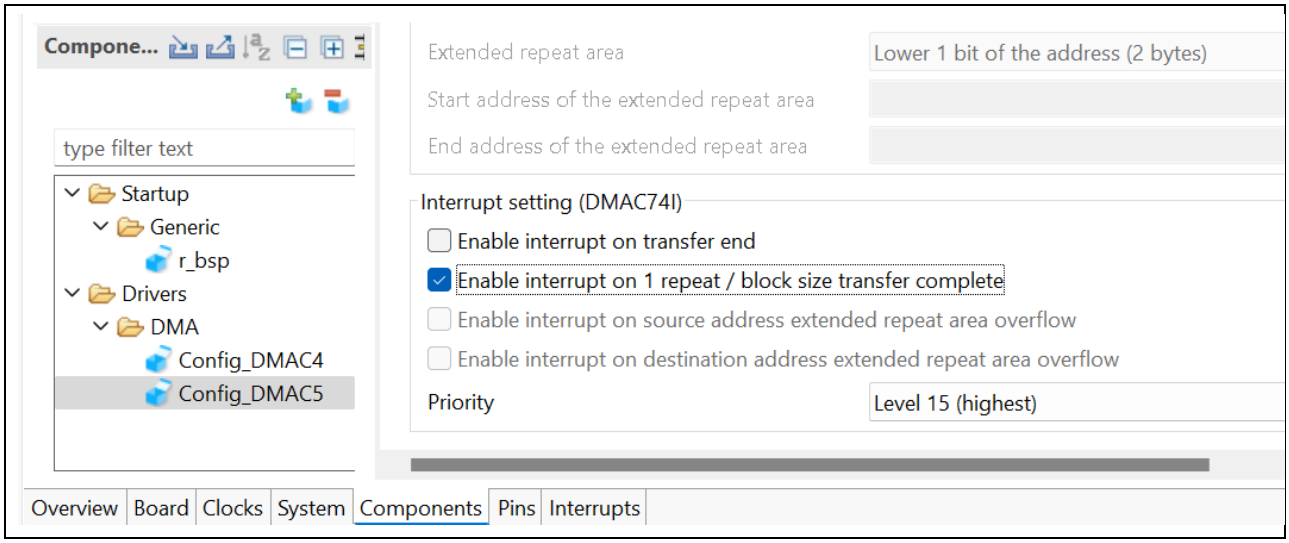

Figure 1. Enable interrupt on 1 repeat / block size transfer complete

Figure 2. Codes added to *r_dmac5_callback_transfer_escape_end()* are not retained

1.5 Workaround

When using DMA Controller component with conditions specified in Section 1.4, write the user codes for callback function as follows.

```
static void r_dmac4_callback_transfer_escape_end(void)
{
    /* Start user code for r_dmac4_dmac74i_callback_transfer_escape_end.
    /* End user code. Do not edit comment generated here */
    /* Start user code */
    // writes code for dmac4 here
    /* End user code */
}

/***********************************************************************
* Function Name: r_dmac4_dmac74i_callback_transfer_escape_end
* Description  : This function is dmac5 transfer escape end callback fur
* Arguments    : None
* Return Value : None
***********************************************************************/

static void r_dmac5_callback_transfer_escape_end(void)
{
    /* Start user code for r_dmac4_dmac74i_callback_transfer_escape_end.
    /* End user code. Do not edit comment generated here */
    /* Start user code */
    // write code for dmac5 here
    /* End user code */
}
```

Figure 3. Add user code for callback function

1.6 Schedule for Fixing the Problem

This problem will be fixed in the following product versions, scheduled for release in Oct. 2025.

- e² studio 2025-10 (Smart Configurator Plug-in V2.27.0)
- Smart Configurator for RX V2.27.0

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Sep.20.25	-	First edition issued

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