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Note on Using the CS+ Code Generator for RX, the e2 studio (Code Generator Plug-in), and the AP4 Coding Assistance Tool for RX

When using the CS+ Code Generator for RX, the e2 studio (Code Generator Plug-in), and the AP4 coding assistance tool for RX, take note of the problems on the following points that are described in this note.

1. Bus Settings

Applicable MCUs: RX64M and RX71M groups

2. Code Generated for the Clock Generation Circuit (HOCO Operation)

Applicable MCUs: RX111 and RX113 groups

1. Bus Settings

1.1 Products Concerned

- V1.02.00 and later versions of the CS+ Code Generator for RX
- V3.0.1.9 and later versions of the e2 studio (V1.1.1 and later version of the Code Generator Plug-in)
- V1.05.00 and later versions of the AP4 coding assistance tool for RX*

*: This note also applies to the following products.

- V1.02.01 and later versions of the Application Leading Tool which is a coding assistance tool for RX

Note: The Application Leading Tool for RX is listed separately because its name has been changed to AP4 for RX from V1.05.00 (the latter are the newer versions of the former).

1.2 Applicable MCUs

RX family: RX64M and RX71M groups

1.3 Description

An error will occur for A16, A17, A21, A22, A23 and code will not be generated after the external address bus signals A16 to A23 are set to PC0, PC1, P71, P72, P74, and PC5 to PC7 because PC2 to PC4 are used for peripheral functions other than address signals.

1.4 Workaround

Set the A16 to A23 signals of the external address bus to PC0 to PC7 or P90 to P97.

1.5 Schedule for Fixing the Problem

This problem will be fixed in the next version.

2. Code Generated for the Clock Generation Circuit (HOCO Operation)

2.1 Products Concerned

- V1.00.00 and later versions of the CS+ Code Generator for RX
- V2.1.0.21 and later versions of the e2 studio (V1.0.0 and later versions of the Code Generator Plug-in)
- V1.05.00 and later versions of the AP4 coding assistance tool for RX*

*: This note also applies to the following products.

- V1.00.00 and later versions of the Application Leading Tool which is a coding assistance tool for RX

Note: The Application Leading Tool for RX is listed separately because its name has been changed to AP4 for RX from V1.05.00 (the latter are the newer versions of the former).

2.2 Applicable MCUs

RX family: RX111 and RX113 groups

2.3 Description

Generated code has an error when settings are for the high-speed on-chip oscillator (HOCO) to be used as the clock circuit.

To set the high-speed on-chip oscillator for operation, set the high-speed on-chip oscillator control register (HOCOCCR) after setting the high-speed on-chip oscillator wait control register (HOCOWTCR).

2.4 Workaround

Modify the code output for void R_CGC_Create(void) in the way shown below. The function is in the r_cg_cgc.c file. This modification is required every time code is generated.

Before modification:

```

void R_CGC_Create(void)
{
.....
    /* Set HOCO */
    SYSTEM.HOCOOCR.BIT.HCSTP = 0U;

    /* Wait for the HOCO wait counter to overflow. */
    while (1U != SYSTEM.OSCOVFSR.BIT.HCOVF);

    /* Set the HOCO wait time. */
    SYSTEM.HOCOWTCR.BYTE = _06_CGC_HOCO_WAIT_CYCLE_266;
.....
}
-----

```

After the modification:

```

-----
void R_CGC_Create(void)
{
.....
    /* Set the HOCO wait time. */
    SYSTEM.HOCOWTCR.BYTE = _06_CGC_HOCO_WAIT_CYCLE_266;

    /* Set HOCO */
    SYSTEM.HOCOOCR.BIT.HCSTP = 0U;

    /* Wait for the HOCO wait counter to overflow. */
    while (1U != SYSTEM.OSCOVFSR.BIT.HCOVF);
.....
}
-----

```

2.5 Schedule for Fixing the Problem

This problem will be fixed in the next version.

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