

Note on Using Application Leading Tool for RX

When using automatic driver generator Application Leading Tool for RX, take note of the following problem:

- With generating code for the IAR Embedded Workbench for Renesas RX (hereafter called EWRX) from IAR Systems
(target: RX110 and RX111 groups)
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1. Product Concerned

Application Leading Tool for RX V1.01.00

2. MCUs Involved

RX110 and RX111 groups of MCUs (RX family)

3. Description

When a project for the EWRX is generated through the Application Leading Tool for RX of the product concerned, the code for initializing the option function select registers is not generated even if the independent watchdog timer and the voltage detection circuit are specified as peripheral functions.

Therefore, the following functions that use the option function select registers are not set up.

- Auto-start mode for the independent watchdog timer
- Startup voltage monitoring 1 reset function

4. Workaround

When generating a code, manually add the values of OFS0_location and OFS1_location, which are output to the r_cg_main.c file, to the *.icf file (e.g., Inkr5f1115.icf) in the EWRX project as the __OFS0 and __OFS1 values.

The last two characters "UL" of the values output to the r_cg_main.c file can be omitted.

Example:

Code output to the r_cg_main.c file

```
-----  
/* r_cg_main.c */  
#pragma location = "OPTBYTE"  
__root const uint32_t OFS0_location = 0xFFFFB625UL; // (a)  
#pragma location = "OPTBYTE"  
__root const uint32_t OFS1_location = 0xFFFFF7FUL; // (b)  
-----
```

Values (a) and (b) should be added to the *.icf file

Code to be added to the Inkr5f1115.icf file

```
-----  
// Option Function Select Register 0 (OFS0)  
define exported symbol __OFS0 = 0xFFFFB625; // Add value (a)  
// Option Function Select Register 1 (OFS1)  
define exported symbol __OFS1 = 0xFFFFF7F; // Add value (b)  
-----
```

5. Schedule for Fixing the Problem

This problem will be fixed in the next version of the Application
Leading Tool for RX.

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