[Notes] RL78 USB Peripheral Firmware Updater, RL78 USB Peripheral Firmware Updater GNU/IAR Ver.

R20TS0067EJ0100
Rev.1.00
Sep. 01, 2016

Outline

When using the RL78 USB Peripheral Firmware Updater or the GNU/IAR Ver. of the RL78 USB Peripheral Firmware Updater, take note of the problem described in this note regarding the following point.

1. Writing a user program to the internal ROM while using an RL78/L1C

1. Writing a User Program to the Internal ROM while Using an RL78/L1C

1.1 Applicable Products

- RL78 USB Peripheral Firmware Updater Rev.1.04
- RL78 USB Peripheral Firmware Updater GNU/IAR Ver. Rev.1.03

1.2 Applicable MCU

RL78/L1C

1.3 Details

The user program*, if placed at the address 10000H or higher addresses, is not correctly written to the internal ROM (flash memory) of the RL78/L1C.

*: Only the Motorola S-record format is supported for the applicable products of this article.

1.4 Conditions

This problem arises if the program, which is written to the flash memory of RL78/L1C, is placed at the address 10000H or higher addresses.

1.5 Workaround

Obtain the C source file r_usb_fwupdate_apl.c from the following URL and replace the one you currently have.
https://www.renesas.com/software/D3017778.html (RL78 USB Peripheral Firmware Updater)
https://www.renesas.com/en-us/software/D3017781.html (RL78 USB Peripheral Firmware Updater GNU/IAR Ver.)

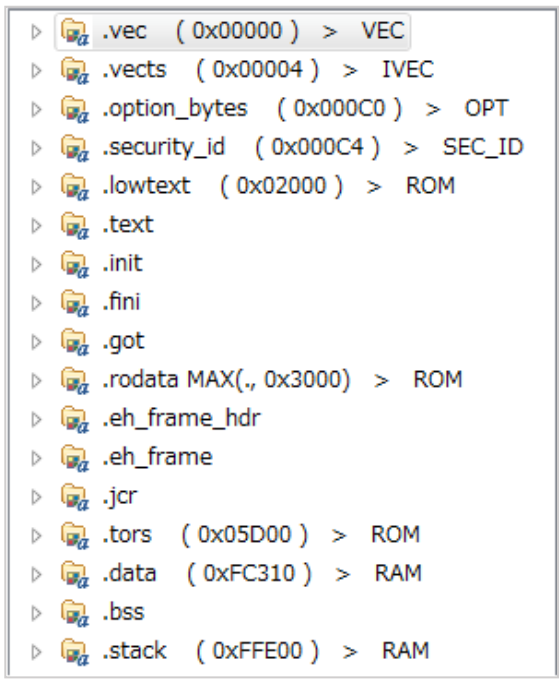
If you are using the CC-RL C compiler package for the RL78 family or GCC compiler, change the section placement as follows after replacing the C source file.

You do not have to change the section placement if you are using the CA78K0R C compiler package for the RL78 family and 78K0R group or IAR compiler.

a. If you are using the CC-RL C compiler package for the RL78 family

0x00002000	FSL_FCD
	FSL_FECD
	FSL_RCD
	FSL_BCD
	FSL_BECD
0x00003000	.const
	.text
	.RLIB
	.SLIB
	.textf
	.constf
	.data
	.sdata
0x000FD000	.dataR
	.bss
0x000FFE20	.sdataR
	.sbss

b. If you are using the GCC compiler*



*: Rev.1.03 of the RL78 USB Peripheral Firmware Updater GNU/IAR Ver. only supports the GCC compiler.

1.6 Schedule for Fixing the Problem

This problem will be fixed in the next versions. These will be released on September 30, 2016.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Sep. 01, 2016	-	First edition issued

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