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 setting of the multi-function timer pulse unit (MTU) and 16-bit timer pulse unit (TPU) (target: RX111 and RX64M groups)

1. Product and Version Concerned
   Application Leading Tool for RX V1.02.01

2. MCUs Involved
   RX111 and RX64M groups of MCUs (RX family)

3. Description
   In some cases, required code for setting the TGRC and TGRD registers is not output to the create function that is generated in response to setting up the multi-function timer pulse unit (MTU) or 16-bit timer pulse unit (TPU) (see NOTE below).

   NOTE:
   For products of the RX111 group, the 16-bit timer pulse unit (TPU) is not included among the items for setting.

4. Conditions
   The problem arises if either of the following conditions is met:
   (1) "PWM mode 1" is selected for either "MTU3" or "MTU6" (see NOTE below) while "Multi-Function Timer Pulse Unit (MTU)" is selected in the tree view.
   (2) "PWM mode 1" is selected for "MTU3" while "16-Bit Timer Pulse Unit (TPU)" is selected in the tree view.

   NOTE:
   For products of the RX111 group, "MTU6" is not included among the items for setting of the multi-function timer pulse unit (MTU).
5. Workaround
Add code for setting the TGRC and TGRD registers to the create function.

Example:
For a product of the RX111 group, "PWM mode 1" is used for "MTU3" while "Multi-Function Timer Pulse Unit 2" is selected in the tree view and the values below are set in the fields for PWM output settings.
- Initial of compare match A value (TGRA) = 100
- Initial of compare match B value (TGRB) = 100
- Initial of compare match C value (TGRC) = 100
- Initial of compare match D value (TGRD) = 100

```c
void R_MTU2_U0_Create(void)
{
    ... ...
    /* Channel 3 is used as PWM1 mode */
    MTU3.TCR.BYTE = _00_MTU_PCLK_1 | _00_MTU_CKEG_RISE |
                    _00_MTU_CKCL_DIS;
    MTU3.TGRA = _0064_TGRA_VALUE;
    MTU3.TGRB = _0064_TGRB_VALUE;
    MTU3.TGRC = 0x64;       //0x64 in hexadecimal is 100 in decimal.
                           //Add code for setting the TGRC register.
    MTU3.TGRD = 0x64;       //Add code for setting the TGRD register.
    ... ...
}
```

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

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