

RENESAS TOOL NEWS on May 16, 2014: 140516/tn2

## Note on Using Renesas Peripheral Driver Libraries for RX62N/RX621/RX630/RX63N/RX631/RX210/RX220 Groups of MCUs and Peripheral Driver Generator -- With Setting of Day of Week Alarm in Real-Time Clock (RTC) --

When using Renesas Peripheral Driver Libraries for the RX62N/RX621/RX630/RX63N/RX631/RX210/RX220 groups of MCUs and Peripheral Driver Generator, take note of the following problem:

- With setting of day of week alarm in real-time clock (RTC)

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### 1. Products and Versions Concerned

- RX62N, RX621 Group Renesas Peripheral Driver Library V.1.02 or later
- RX630 Group Renesas Peripheral Driver Library V.1.00 or later
- RX63N, RX631 Group Renesas Peripheral Driver Library V.1.01 or later
- RX210 Group Renesas Peripheral Driver Library V.1.01 or later
- RX220 Group Renesas Peripheral Driver Library V.1.01 or later
- Peripheral Driver Generator V.2.01 or later

### 2. Description

The day of the week alarm cannot be set correctly by the RTC control function.

#### 2.1 In Renesas Peripheral Driver Library

The set value of the day of the week alarm is undefined when the RTC control function (R\_RTC\_Control) is called with "PDL\_RTC\_UPDATE\_ALARM\_DOW" or "PDL\_RTC\_UPDATE\_ALARM\_DATE" option.

#### 2.2 In Peripheral Driver Generator

The set value of the day of the week alarm is undefined when using the RTC set time for alarm function (R\_PG\_RTC\_SetAlarmTime).

### **3. Workarounds**

Ways to avoid this problem are described below:

#### **3.1 In Renesas Peripheral Driver Library**

Do not call the RTC control function (R\_RTC\_Control) with "PDL\_RTC\_UPDATE\_ALARM\_DOW" or "PDL\_RTC\_UPDATE\_ALARM\_DATE" option. The day of the week alarm can only be set by the RTC create function (R\_RTC\_Create).

#### **3.2 In Peripheral Driver Generator**

Do not use the RTC set time for alarm function (R\_PG\_RTC\_SetAlarmTime). "Year", "Month", "Date", "Day of week", "Hour", "Minute" and "Second" specified in the alarm interrupt settings of GUI can be set by the RTC start counting function (R\_PG\_RTC\_Start).

### **4. Schedule for Fixing the Problem**

This problem will be fixed in a later version of the product.

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