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## Why IRQ200 is always seen on APSS wakeup from power collapse? Is it reason for wakeup?

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**Solution Number** 00029201

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**Language Key  
Words**

**Detail Information**

**Solution Title** Why IRQ200 is always seen on APSS wakeup from power collapse? Is it reason for wakeup?

**Solution Details** Question: Why IRQ200 is always seen on APSS wakeup from power collapse? Is it reason for wakeup?  
Answer:  
IRQ 200 is SMD channel "rpm\_requests", used for message between APPS and RPM.  
When apss side enter power collapse(sleep mode 3), it will call file rpm\_smd.c, func  
msm\_rpm\_enter\_sleep. During power collapse, the rpm driver disables the SMD interrupts(IRQ 200) ,  
IRQ200 interrupt cannot wakes APPS from sleep.

```
int msm_rpm_enter_sleep(bool print)
{
    if (standalone)
        return 0;
```

```
    msm_rpm_flush_requests(print); //send all rpm requests to RPM
```

```
    return smd_mask_receive_interrupt(msm_rpm_data.ch_info, true); //disable irq 200 for wakeup
}
```

Response for the request messages send from AP to RPM before power collapse, it's sent after RPM side done APSS sleep set configuration requests, see RPM function:  
Rpm\_handler.cpp (core\power\rpm\server) Handler::processMessage-> writeResponse.  
Because AP disable IRQ200—prevent RPM side message send to AP when it's power collapsed, it's normal to see these responses after AP enable IRQ200 again after wakeup.

**Applicable  
Products** MSM8226, MSM8974AC