Figure 148: Controller repeated start sequence

If a more complex repeated start sequence is needed, and the TWI firmware drive is serviced in a low priority interrupt, use the SUSPEND task and SUSPENDED event to ensure that the correct tasks are generated at the correct time. A double repeated start sequence using the SUSPEND task to secure safe operation in low priority interrupts is shown in the following figure.
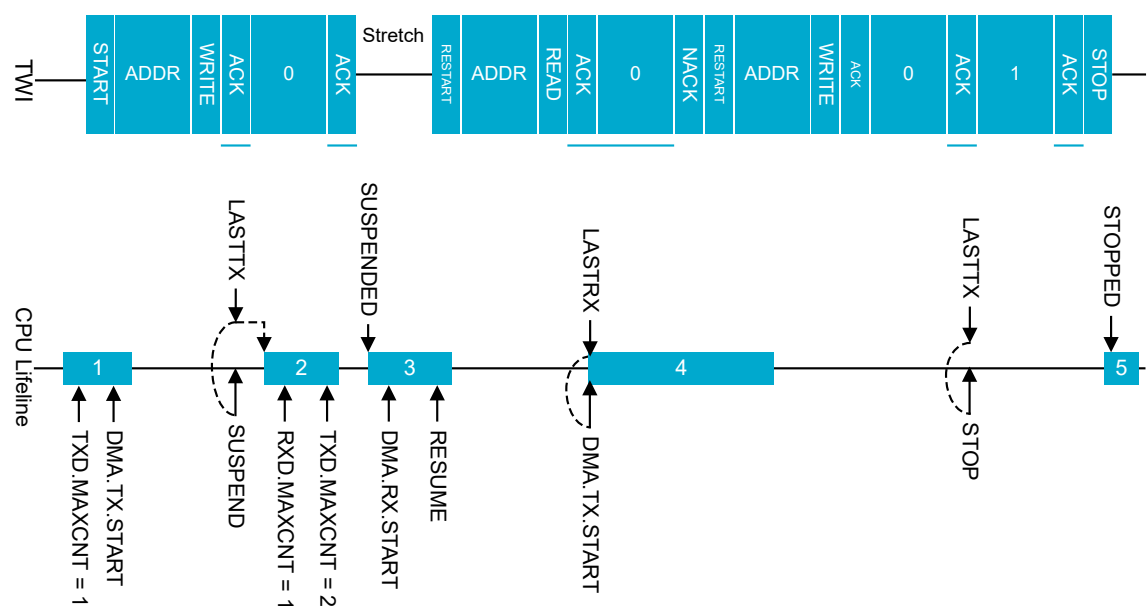

Figure 149: Double repeated start sequence

8.23.7 Low power

When the peripheral is not needed, stop and disable TWIM for lowest possible power consumption.

When the STOP task is sent, the software must wait until the STOPPED event is received before disabling the peripheral through the ENABLE register. If the peripheral is already stopped, the STOP task is not needed.

8.23.8 TWIM pin configuration

The SCL and SDA signals are mapped to physical pins using the PSEL.SCL and PSEL.SDA registers.

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SEMICONDUCTOR