

Sensemux SW - Fehler #186

RTC does not store date

24.05.2022 11:04 - Maximilian Seesslen

Status:	Neu	Beginn:	24.05.2022
Priorität:	Normal	Abgabedatum:	
Zugewiesen an:	Maximilian Seesslen	% erledigt:	0%
Kategorie:		Geschätzter Aufwand:	0.00 Stunde
Zielversion:		Aufgewendete Zeit:	0.00 Stunde
CS Zielversion:			

Beschreibung

Time is working fine.

Setting date and time works fine. After reset the time is still valid but the date is zeroed.

Some comment that this is a bug in the STM32F103.

Some comment that the date is written to SRAM and has to be kind of synced.

<https://community.st.com/s/question/0D50X00009XkekSSAR/stm32f103-rtc-vbat-date-resets-after-power-off>

Historie

#1 - 24.05.2022 11:19 - Maximilian Seesslen

<https://www.stm32duino.com/viewtopic.php?t=775>

It claims that STM32F1 just can not keep the date and user has to keep track by himself. :O
Would be fine but is this a bug in HAL?

#2 - 24.05.2022 12:22 - Maximilian Seesslen

Reading software clarifies that this behaviour is by design.
I remember i fixed something; Check if there is an old patch.

Alternative 1:

Read-sync date on startup from Backup-Register before any RRTC read access;

Read-sync date on any get/set-date/time. This would still loose an day when powering off after 00:00:00 o'clock and within first getTime command.

-> Quite easy, no change of HAL code, minimal error-prone

Alternative 2:

The 32bit counter is capable of storing date for further 80 years (at least since 1970).

get rid of the autoadjust and just add an offset.

-> Big changes of HAL code, error-save

#3 - 24.01.2023 13:56 - Maximilian Seesslen

- Projekt wurde von CANSwitch zu sensemux geändert

- Zugewiesen an wurde auf Maximilian Seesslen gesetzt

#4 - 13.02.2023 17:17 - Maximilian Seesslen

- Projekt wurde von sensemux zu Sensemux SW geändert