# nRF52805 Revision 2

Errata v1.0



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### 1 nRF52805 Revision 2 Errata

This Errata document contains anomalies and configurations for the nRF52805 chip, revision Revision 2 (CAAA-Bxx).

The document indicates which anomalies are fixed, inherited, or new compared to revision Revision 1.



### 2 Revision history

See the following list for an overview of changes from previous versions of this document.



Version	Date	Change
nRF52805 Revision 2 v1.0	13.12.2021	<ul> <li>Added: No. 15. "RAM[x].POWERSET/CLR read as zero"</li> <li>Added: No. 20. "Register values are invalid"</li> <li>Added: No. 31. "Calibration values are not correctly loaded from FICR at reset"</li> <li>Added: No. 36. "Some registers are not reset when expected"</li> <li>Added: No. 66. "Linearity specification not met with default settings"</li> <li>Added: No. 68. "EVENTS_HFCLKSTARTED can be generated before HFCLK is stable"</li> <li>Added: No. 77. "RC oscillator is not calibrated when first started"</li> <li>Added: No. 78. "High current consumption when using timer STOP task only"</li> <li>Added: No. 81. "PIN_CNF is not retained when in debug interface mode"</li> <li>Added: No. 83. "STOPPED event occurs twice if the STOP task is triggered during a transaction"</li> <li>Added: No. 88. "Increased current consumption when configured to pause in System ON idle"</li> <li>Added: No. 156. "Bits in RESETREAS are set when they should not be"</li> <li>Added: No. 155. "IN event may occur more than once on input edge"</li> <li>Added: No. 156. "Some CLR tasks give unintentional behavior"</li> <li>Added: No. 173. "Writes to LATCH register take several CPU cycles to take effect"</li> <li>Added: No. 179. "COMPARE event is generated twice from a single RTC compare match"</li> <li>Added: No. 184. "Erase or write operations from the external debugger fail when CPU is not halted"</li> <li>Added: No. 210. "Bits in GPIO LATCH register are incorrectly set to 1"</li> <li>Added: No. 211. "RAM calibration values are not correctly loaded from FICR at reset"</li> <li>Added: No. 212. "Events are not generated when switching from scan mode to no-scan mode with burst enabled"</li> <li>Added: No. 219. "12C timing spec is violated at 400 kHz"</li> <li>Added: No. 242. "NVMC operations during POFWARN cause the CPU to hang"</li> <li>Added: No. 245. "CRC is wrong when data whitening is enabled and address field is included in CRC calculation"</li> <li>Added: No. 246. "Intermittent extra current consumption when going to sleep"</li> <li>Ad</li></ul>



### 3

### New and inherited anomalies

The following anomalies are present in revision Revision 2 of the nRF52805 chip.

ID	Module	Description	Inherited from Revision 1
15	POWER	RAM[x].POWERSET/CLR read as zero	Х
20	RTC	Register values are invalid	X
31	CLOCK	Calibration values are not correctly loaded from FICR at reset	Х
36	CLOCK	Some registers are not reset when expected	Х
66	TEMP	Linearity specification not met with default settings	X
68	CLOCK	EVENTS_HFCLKSTARTED can be generated before HFCLK is stable	Х
77	CLOCK	RC oscillator is not calibrated when first started	Х
78	TIMER	High current consumption when using timer STOP task only	Х
81	GPIO	PIN_CNF is not retained when in debug interface mode	Х
83	TWIS	STOPPED event occurs twice if the STOP task is triggered during a transaction	Х
88	WDT	Increased current consumption when configured to pause in System ON idle	X
136	System	Bits in RESETREAS are set when they should not be	Х
155	GPIOTE	IN event may occur more than once on input edge	Х
156	GPIOTE	Some CLR tasks give unintentional behavior	Х
173	GPIO	Writes to LATCH register take several CPU cycles to take effect	Х
176	System	Flash erase through CTRL-AP fails due to watchdog time-out	Х
179	RTC	COMPARE event is generated twice from a single RTC compare match	Х
184	NVMC	Erase or write operations from the external debugger fail when CPU is not halted	х
210	GPIO	Bits in GPIO LATCH register are incorrectly set to 1	X
212	SAADC	Events are not generated when switching from scan mode to no- scan mode with burst enabled	X
217	RAM	RAM calibration values are not correctly loaded from FICR at reset	Х
219	TWIM	I2C timing spec is violated at 400 kHz	Х
242	NVMC	NVMC operations during POFWARN cause the CPU to hang	Х
245	RADIO	CRC is wrong when data whitening is enabled and address field is included in CRC calculation	X



ID	Module	Description	Inherited from Revision 1
246	System	Intermittent extra current consumption when going to sleep	X

Table 1: New and inherited anomalies

### 3.1 [15] POWER: RAM[x].POWERSET/CLR read as zero

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

RAM[x].POWERSET and RAM[x].POWERCLR read as zero, even though the RAM is on.

#### **Conditions**

Always.

#### Consequences

Not possible to read the RAM state using RAM[x].POWERSET and RAM[x].POWERCLR registers. Write works as it should.

#### Workaround

Use RAM[x].POWER to read the state of the RAM.

### 3.2 [20] RTC: Register values are invalid

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

RTC registers will not contain the correct/expected value if read.

#### **Conditions**

The RTC has been idle.

#### Consequences

RTC configuration cannot be determined by reading RTC registers.



#### Workaround

Execute the below code before you use RTC.

```
NRF_CLOCK->EVENTS_LFCLKSTARTED = 0;
NRF_CLOCK->TASKS_LFCLKSTART = 1;
while (NRF_CLOCK->EVENTS_LFCLKSTARTED == 0) {}
NRF_RTC0->TASKS_STOP = 0;
```

### 3.3 [31] CLOCK: Calibration values are not correctly loaded from FICR at reset

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

RCOSC32KICALLENGTH is initialized with the wrong FICR value.

#### **Conditions**

Always.

#### Consequences

RCOSC32KICALLENGTH default value is wrong.

#### Workaround

Execute the following code after reset:

```
*(volatile uint32_t *)0x4000053C = ((*(volatile uint32_t *)0x10000244) & 0x0000E000) >> 13;
```

This code is already present in the latest system\_nrf52.c file.

## 3.4 [36] CLOCK: Some registers are not reset when expected

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

After watchdog timeout reset, CPU lockup reset, soft reset, or pin reset, the following CLOCK peripheral registers are not reset:

CLOCK->EVENTS\_DONE

NORDIC\*

- CLOCK->EVENTS\_CTTO
- CLOCK->CTIV

#### **Conditions**

After watchdog timeout reset, CPU Lockup reset, soft reset, and pin reset.

#### Consequences

Register reset values might be incorrect. It may cause undesired interrupts in case of enabling interrupts without clearing the DONE or CTTO events.

#### Workaround

Clear affected registers after reset. This workaround has already been added into system\_nrf52.c file. This workaround has already been added into system\_nrf52840.c file present in MDK 8.11.0 or later.

## 3.5 [66] TEMP: Linearity specification not met with default settings

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

TEMP module provides non-linear temperature readings over the specified temperature range.

#### **Conditions**

Always.

#### Consequences

TEMP module returns out of spec temperature readings.



#### Workaround

Execute the following code after reset:

```
NRF TEMP->A0 = NRF FICR->TEMP.A0;
NRF_TEMP->A1 = NRF_FICR->TEMP.A1;
NRF TEMP->A2 = NRF FICR->TEMP.A2;
NRF TEMP->A3 = NRF FICR->TEMP.A3;
NRF TEMP->A4 = NRF FICR->TEMP.A4;
NRF TEMP->A5 = NRF FICR->TEMP.A5;
NRF TEMP->B0 = NRF FICR->TEMP.B0;
NRF TEMP->B1 = NRF FICR->TEMP.B1;
NRF TEMP->B2 = NRF FICR->TEMP.B2;
NRF TEMP->B3 = NRF FICR->TEMP.B3;
NRF_TEMP->B4 = NRF_FICR->TEMP.B4;
NRF TEMP->B5 = NRF FICR->TEMP.B5;
NRF TEMP->T0 = NRF FICR->TEMP.T0;
NRF_TEMP->T1 = NRF_FICR->TEMP.T1;
NRF TEMP->T2 = NRF FICR->TEMP.T2;
NRF TEMP->T3 = NRF FICR->TEMP.T3;
NRF_TEMP->T4 = NRF_FICR->TEMP.T4;
```

This code is already present in the latest system\_nrf52.c file and in the system\_nrf52840.c file released in MDK 8.12.0.

## 3.6 [68] CLOCK: EVENTS\_HFCLKSTARTED can be generated before HFCLK is stable

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

EVENTS\_HFCLKSTARTED may come before HFXO is started.

#### **Conditions**

When using a 32 MHz crystal with start-up longer than 400 μs.

#### Consequences

Performance of radio and peripheral requiring HFXO will be degraded until the crystal is stable.

#### Workaround

32 MHz crystal oscillator startup time must be verified by the user. If the worst-case startup time is shorter than 400  $\mu$ s, no workaround is required. If the startup time can be longer than 400  $\mu$ s, the software must ensure, using a timer, that the crystal has had enough time to start up before using peripherals that require the HFXO. The Radio requires the HFXO to be stable before use. The ADC, TIMERs, and TEMP sensor for example can use the HFXO as a reference for improved accuracy.



### 3.7 [77] CLOCK: RC oscillator is not calibrated when first started

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

The LFCLK RC oscillator frequency can have a frequency error of up to -25 to +40% after reset. A +/- 2% error is stated in the Product Specification.

#### **Conditions**

Always.

#### Consequences

The LFCLK RC oscillator frequency is inaccurate.

#### Workaround

Calibrate the LFCLK RC oscillator before its first use after a reset.

## 3.8 [78] TIMER: High current consumption when using timer STOP task only

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

Increased current consumption when the timer has been running and the STOP task is used to stop it.

#### **Conditions**

The timer has been running (after triggering a START task) and then it is stopped using a STOP task only.

#### Consequences

Increased current consumption.

#### Workaround

Use the SHUTDOWN task after the STOP task or instead of the STOP task.

### 3.9 [81] GPIO: PIN\_CNF is not retained when in debug interface mode

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.



It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

GPIO pin configuration is reset on wakeup from System OFF.

#### **Conditions**

The system is in debug interface mode.

#### Consequences

GPIO state unreliable until PIN\_CNF is reconfigured.

### 3.10 [83] TWIS: STOPPED event occurs twice if the STOP task is triggered during a transaction

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

STOPPED event is set after clearing it.

#### **Conditions**

The STOP task is triggered during a transaction.

#### Consequences

STOPPED event occurs twice: When the STOP task is fired and when the master issues a stop condition on the bus. This could provoke an extra interrupt or a failure in the TWIS driver.

#### Workaround

The last STOPPED event must be accounted for in software.

## 3.11 [88] WDT: Increased current consumption when configured to pause in System ON idle

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

Using the mode where watchdog is paused in CPU Idle, the current consumption jumps from 3  $\mu$ A to 400  $\mu$ A.



#### **Conditions**

When we enable WDT with the CONFIG option to pause when CPU sleeps:

```
NRF_WDT->CONFIG = (WDT_CONFIG_SLEEP_Pause<<WDT_CONFIG_SLEEP_Pos);</pre>
```

#### Consequences

Reduced battery life.

#### Workaround

Do not enter System ON IDLE within 125  $\mu$ s after reloading the watchdog.

### 3.12 [136] System: Bits in RESETREAS are set when they should not be

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

After pin reset, RESETREAS bits other than RESETPIN might also be set.

#### **Conditions**

A pin reset has triggered.

#### Consequences

If the firmware evaluates RESETREAS, it might take the wrong action.

#### Workaround

When RESETREAS shows a pin reset (RESETPIN), ignore other reset reason bits.

**Important:** RESETREAS bits must be cleared between resets.

Apply the following code after any reset:

```
if (NRF_POWER->RESETREAS & POWER_RESETREAS_RESETPIN_Msk) {
   NRF_POWER->RESETREAS = ~POWER_RESETREAS_RESETPIN_Msk;
}
```

This workaround is implemented in MDK version 8.13.0 and later.

## 3.13 [155] GPIOTE: IN event may occur more than once on input edge

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

NORDIC\*

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

IN event occurs more than once on an input edge.

#### **Conditions**

Input signal edges are closer together than 1.3  $\mu$ s or >= 750 kHz for a periodic signal.

#### Consequences

Tasks connected through PPI or SHORTS to this event might be triggered twice.

#### Workaround

Apply the following code when any GPIOTE channel is configured to generate an IN event on edges that can occur within 1.3  $\mu$ s of each other:

```
*(volatile uint32_t *)(NRF_GPIOTE_BASE + 0x600 + (4 * GPIOTE_CH_USED)) = 1;
```

**Important:** A clock is kept on by the workaround and must be reverted to avoid higher current consumption when GPIOTE is not in use, using the following code:

```
*(volatile uint32_t *)(NRF_GPIOTE_BASE + 0x600 + (4 * GPIOTE_CH_USED)) = 0;
```

### 3.14 [156] GPIOTE: Some CLR tasks give unintentional behavior

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

One of the following symptoms may occur:

- Current consumption is high when entering IDLE.
- Latency for detection changes on inputs connected to GPIOTE channels is becoming longer than expected.

#### **Conditions**

The following tasks are in use:



Address	GPIOTE task
0x060	TASKS_CLR[0]
0x068	TASKS_CLR[2]
0x070	TASKS_CLR[4]
0x078	TASKS_CLR[6]

#### Consequences

Experiencing high current consumption during System ON Idle, or too long time from external event to internal triggering of PPI event and/or IRQ from GPIOTE.

#### Workaround

Instead of using TASKS\_CLR[n], set CONFIG[n]. POLARITY to HiToLo and trigger TASKS\_OUT[n], with n = 0, 2, 4, 6.

### 3.15 [173] GPIO: Writes to LATCH register take several CPU cycles to take effect

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### Symptoms

A bit in the LATCH register reads '1' even after clearing it by writing '1'.

#### **Conditions**

Reading the LATCH register right after writing to it.

#### Consequences

Old value of the LATCH register is read.

#### Workaround

Have at least 3 CPU cycles of delay between the write and the subsequent read to the LATCH register. This can be achieved by having 3 dummy reads to the LATCH register.

### 3.16 [176] System: Flash erase through CTRL-AP fails due to watchdog time-out

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

Full flash erase through CTRL-AP is not successful.



#### **Conditions**

WDT is enabled.

#### Consequences

Flash is not erased. If the device has a WDT time-out less than 1 ms and is readback-protected through UICR.APPROTECT, there is a risk of permanently preventing the erasing of the flash.

#### Workaround

Try again.

## 3.17 [179] RTC: COMPARE event is generated twice from a single RTC compare match

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

Tasks connected to RTC COMPARE event through PPI are triggered twice per compare match.

#### **Conditions**

RTC registers are being accessed by CPU while RTC is running.

#### Consequences

Tasks connected to RTC COMPARE event through PPI are triggered more often than expected.

#### Workaround

Do not access the RTC registers, including the COMPARE event register, from CPU while waiting for the RTC COMPARE event. Note that CPU interrupt from this event can still be enabled.

## 3.18 [184] NVMC: Erase or write operations from the external debugger fail when CPU is not halted

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

The erase or write operation fails or takes longer time than specified.

#### **Conditions**

NVMC erase or write operation initiated using an external debugger. CPU is not halted.



#### Consequences

The NVMC erase or write operation fails or takes longer time than specified.

#### Workaround

Halt the CPU by writing to DHCSR (Debug Halting Control and Status Register) before starting NVMC erase or write operation from the external debugger. See the ARM infocenter to get the details of the DHCSR register.

Programming tools provided by Nordic Semiconductor comply with this.

### 3.19 [210] GPIO: Bits in GPIO LATCH register are incorrectly set to 1

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

The GPIO.LATCH[n] register is unexpectedly set to 1 (Latched).

#### **Conditions**

Set GPIO.PIN\_CNF[n].SENSE at low level (3) at the same time as PIN\_CNF[n].INPUT is set to Connect (0).

#### Consequences

The GPIO.LATCH[n] register is set to 1 (Latched). This could have side effects, depending on how the chip is configured to use this LATCH register.

#### Workaround

Always configure PIN\_CNF[n].INPUT before PIN\_CNF[n].SENSE.

# 3.20 [212] SAADC: Events are not generated when switching from scan mode to no-scan mode with burst enabled

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

SAADC stops working.

#### **Conditions**

Any of the following:



- Switching from multiple channels to single channel when BURST is disabled and acquisition time < 10 us.</li>
- Switching from multiple channels to single channel when BURST is enabled.

#### Consequences

SAADC does not generate the expected events.

#### Workaround

Execute the following code before changing the channel configuration:

```
volatile uint32_t temp1;
volatile uint32_t temp2;
volatile uint32_t temp3;

temp1 = *(volatile uint32_t *)0x400076440ul;
temp2 = *(volatile uint32_t *)0x40007644ul;
temp3 = *(volatile uint32_t *)0x40007648ul;

*(volatile uint32_t *)0x40007FFCul = 0ul;
*(volatile uint32_t *)0x40007FFCul = 1ul;

*(volatile uint32_t *)0x40007FFCul = 1ul;

*(volatile uint32_t *)0x40007640ul = temp1;
*(volatile uint32_t *)0x40007644ul = temp2;
*(volatile uint32_t *)0x40007648ul = temp3;
```

After the workaround is executed, the SAADC configuration is reset. Before use all registers must be configured again.

## 3.21 [217] RAM: RAM calibration values are not correctly loaded from FICR at reset

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

RAM calibration value is initialized to the wrong value.

#### **Conditions**

Always.

#### Consequences

Statistical margin to data retention failure when retaining RAM in System OFF is lower than intended for high temperature operating conditions.

Note: This failure has not been reported or reproduced under test at the time of publication.



#### Workaround

Apply the following code after any reset:

```
*(volatile uint32_t *)0x40000EE4ul |= 0x0000000Ful;
```

This workaround is implemented in nRF MDK v8.25.0 and later.

#### 3.22 [219] TWIM: I2C timing spec is violated at 400 kHz

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

The low period of the SCL clock is too short to meet the I2C specification at 400 kHz. The actual low period of the SCL clock is 1.25  $\mu$ s while the I2C specification requires the SCL clock to have a minimum low period of 1.3  $\mu$ s.

#### **Conditions**

Using TWIM at 400 kHz.

#### Consequences

TWI communication might not work at 400 kHz with I2C compatible devices.

#### Workaround

If communication does not work at 400 kHz with an I2C compatible device that requires the SCL clock to have a minimum low period of 1.3  $\mu$ s, use 390 kHz instead of 400kHz by writing 0x06200000 to the FREQUENCY register. With this setting, the SCL low period is greater than 1.3  $\mu$ s.

### 3.23 [242] NVMC: NVMC operations during POFWARN cause the CPU to hang

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

The CPU hangs.

#### **Conditions**

NVMC write or erase operation when POFWARN is asserted, and with low probability when POFWARN is asserted while an NVMC write or erase operation is ongoing.

#### Consequences

Code execution is halted.



#### Workaround

Disable POFWARN by writing POFCON before a write or erase operation. Do not attempt to write or erase if EVENTS POFWARN is already asserted.

### 3.24 [245] RADIO: CRC is wrong when data whitening is enabled and address field is included in CRC calculation

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

CRC failures are reported.

#### **Conditions**

In RX, if data whitening is enabled and the CRC checker is configured to take the address field into CRC calculations.

#### Consequences

CRC failures are reported though received packet contents are good.

### 3.25 [246] System: Intermittent extra current consumption when going to sleep

This anomaly applies to IC Rev. Revision 2, build codes CAAA-Bxx.

It was inherited from the previous IC revision Revision 1.

#### **Symptoms**

Extra current consumption in the range of 350 µA when in System On Idle.

#### **Conditions**

A high-speed peripheral (CPU for example) accesses a RAM block which is being accessed by a low-speed peripheral through the DMA bus, with a specific timing, and the high-speed peripheral has higher priority than the low-speed peripheral.

#### Consequences

Extra current consumption in System On Idle.

#### Workaround

Apply the following code after any reset:

\*(volatile uint32 t \*)0x4007AC84ul = 0x00000002ul;



Workaround consequences: Up to 40  $\mu\text{A}$  current increase when the 16 MHz clock is used.



### 4 New and inherited configurations

The following configurations apply to revision Revision 2 of the nRF52805 chip.

ID	Module	Description	Inherited from Revision 1
249	DIF	Access port protection needs software interface configuration	

Table 2: Configurations

## 4.1 [249] DIF: Access port protection needs software interface configuration

This configuration applies to IC Rev. Revision 2, build codes CAAA-Bxx.

#### **Symptoms**

Access port protection (APPROTECT) is enabled by default and must be disabled by software.

#### **Conditions**

After any power-on reset, brownout reset, watchdog timer reset, pin reset, or wake up from System OFF mode if not in debug interface mode.

#### Consequences

The device cannot be debugged or programmed without erasing the non-volatile memory.

#### Workaround

To enable debugging and programming, apply the following code before the start of the application code:

```
NRF_APPROTECT->DISABLE = APPROTECT_DISABLE_DISABLE_SwDisable;
```

To force the disabling of debugging and programming, apply the following code before the start of the application code:

```
NRF_APPROTECT->FORCEPROTECT = APPROTECT_FORCEPROTECT_FORCEPROTECT_Force;
```

This workaround is implemented in MDK version 8.40.2 and later.

