

ANT_S332_nrf52832_0.3.0.alpha release notes

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ANT_S332_nrf52832_0.3.0.alpha

The ANT_S332_nrf52832_0.3.0.alpha SoftDevice for the nRF52 platform is based upon the ANT_S212_nrf52832_0.3.0.alpha(ANT) SoftDevice and S132 v1.0.0-3.alpha (BLE) SoftDevice combined.

The ANT_S332_nrf52832_0.3.0.alpha is the first alpha release of ANT_S332.

Notes:

- This is a major release which has changed the Application Programmer Interface (API), requiring application(s) to be recompiled.

SoftDevice Properties

- There is no SoftDevice Specification corresponding to this release. The S310 SoftDevice Specification v3.0.0 and S132 Softdevice Specification v0.5 are applicable in large parts. Both are available on the [Nordic Infocenter](#).
- This version of the SoftDevice contains the Master Boot Record (MBR) version 1.1.0
- The combined MBR and SoftDevice memory requirements for this version is as follows:
 - Flash: **164kB** (0x29000 bytes)
 - RAM: **11.25kB** (0x2D00 bytes)

Compatibility

The ANT_S332_nrf52832_0.3.0.alpha is restricted to use with nRF52832 IC rev Engineering A.

New functionality

ANT functionality in the ANT_S332_nrf52832_0.3.0.alpha SoftDevice for the nRF52 platform is equivalent to the content in the Nordic S310_nrf51422_3.0.0 SoftDevice. BLE content is equivalent to the functionality in the Nordic S132 v1.0.0-3.alpha (BLE) SoftDevice.

Changes

- API changes from **S310_nrf51422_3.0.0**
 - New event: NRF_EVT_FLASH_OPERATION_VERIFY_FAILED, only available on nRF52
 - sd_flash_protect() has been changed to be compatible both with nRF52 and with future nRF51 releases.
 - Platform-specific declarations, definitions and macros split out and placed in subfolders with the platform name (e.g. 'nrf52')

Limitations

- **MBR**
 - The MBR in this release uses 12 kB of flash, meaning that the SoftDevice start address is 0x3000 and the SoftDevice info structure address is 0x5000. This is subject to change in future releases (DRGN-5436).
- **SoftDevice**

- If Radio Notifications are enabled, flash write and flash erase operations initiated through the SoftDevice API will be notified to the application as Radio Events (DRGN-5197).
- **BLE**
 - LL
 - The peripheral role has priority over the central role when it comes to keeping the links alive.
 - GATTs
 - To conform to the Bluetooth specification there shall not be a secondary service that is not referenced somehow by a
 - primary service. The SoftDevice does not enforce this (DRGN-906, DRGN-2260).

Known Issues

- **SoftDevice**
 - FPU must be enabled in application.