

Bluetooth SDK 2.11.1 GA

Silicon Laboratories, Inc.

January 28, 2019

1 Release Highlights

- Bluetooth 5.1 - GATT Caching
- Selected quality improvements and bug fixes (details in Chapter 6)
- Gecko Bootloader has been updated to version 1.8.0 to fix a critical security issue. We strongly recommend all customers using image signing to upgrade their products to this latest version which was introduced in Gecko SDK Suite 2.5.0 (Q4 2018 release in December). Bootloader field update instructions are described in this [knowledge base article](#).

2 Added Items

2.1 New Features:

- Feature 4914: GATT Caching. By default this feature is enabled if application's GATT database XML has a Generic Attribute Profile service. The feature can also be enabled and disabled from Visual GATT Editor.
- Feature 5463: If a GATT client subscribes to notifications or indications before bonding is created, then those subscriptions are stored permanently in the GATT server. In previous versions, only the subscriptions that were created after the bonding were saved.

2.2 New APIs:

The following commands can only be used on EFR32BG13 devices. However they are only meaningful in the case one is developing Angle of Arrival applications in the future.

- `gecko_cmd_cte_transmitter_enable_cte_response` for enabling CTE responses on a connection
- `gecko_cmd_cte_transmitter_disable_cte_response` for disabling CTE responses on a connection
- `gecko_cmd_cte_transmitter_set_dtm_parameters` for setting CTE related parameters of LE transmitter test
- `gecko_cmd_cte_transmitter_clear_dtm_parameters` for clearing CTE related parameters previously set for LE transmitter test
- `gecko_cmd_cte_receiver_start_iq_sampling` for starting IQ samplings on a connection
- `gecko_cmd_cte_receiver_stop_iq_sampling` for stopping IQ samplings on a connection
- `gecko_cmd_cte_receiver_set_dtm_parameters` for setting CTE related parameters of LE receiver test
- `gecko_cmd_cte_receiver_clear_dtm_parameters` for clearing CTE related parameters previously set for LE receiver test
- `gecko_evt_cte_receiver_iq_report` for receiving IQ samples reports

3 Changed Items

No items in this category has been changed.

4 Deprecated Items

No items in this category has been deprecated.

5 Removed Items

No items in this category has been removed.

6 Fixed Issues

- Issue 5490: GATT server may fail to send read responses immediately after connection is opened
- Issue 5507: `gecko_cmd_test_dtm_tx` command does not work with certain packet lengths
- Issue 5542: Application fails to compile if BGAPI commands from the sync class are used

7 Open Issues

- Issue 1835: With certain events, GCC breakpoints cannot be set.
- Issue 4521: Command `gecko_cmd_gatt_discover_primary_services_by_uuid` returns success in case of incomplete parameters.
- Issue 4559: Deleting a bonding of a device while the device is still connected causes the stack using outdated bonding data on the connection.
- Issue 5390: The `evt_sync_data` event does not report TX power.

8 Documentation Changes

No items in this category has been changed.