AIROC™ Bluetooth® Connect App user guide

for Android and iOS

Version 1.5.0

About this document

Scope and purpose

The AIROC™ Bluetooth® Connect App – for Android and iOS – allows your device to discover other Bluetooth® Low Energy (LE) devices, display real-time data, and interact with the various profiles and services.

Document conventions

Convention	Explanation
Bold	Emphasizes heading levels, column headings, menus and sub-menus
Italics	Denotes file names and paths.
`Courier New`	Denotes APIs, functions, interrupt handlers, events, data types, error handlers, file/folder names, directories, command line inputs, code snippets
File > New	Indicates that a cascading sub-menu opens when you select a menu item

Abbreviations and definitions

The following define the abbreviations and terms used in this document:

- Application – One or more projects related to each other.
- API – application programming interface
- GATT – generic attribute profile
- IV – initialization vector
- SIG – special interest group
- OTA – over-the-air

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1 Overview

The AIROC™ Bluetooth® Connect App mobile application has been developed for Android and iOS mobile phones and tablets by Infineon Technologies as a companion for the AIROC™ Bluetooth® SoCs, PSoC™ 4-BLE, PSoC™ 63-BLE and their respective eval kits.

1.1 Software requirements

Software prerequisites	Minimum	Recommended
Android OS	9 (API level 28)	Latest
iOS	12	Latest

For details on Bluetooth® LE support:

- in Android, refer to https://developer.android.com/guide/topics/connectivity/bluetooth-le.html
- in iOS, refer to https://developer.apple.com/bluetooth/

1.2 Hardware requirements

Hardware/Operating system requirements	Minimum	Recommended
Android Mobiles/Tablets with Bluetooth® 4.0 or later	Bluetooth® 4.0	Latest
iOS Mobiles/Tablets with Bluetooth® 4.0 or later	Bluetooth® 4.0	Latest

1.3 Source code

The source code for AIROC™ Bluetooth® Connect App – for Android and iOS – is available for download at:

https://github.com/Infineon/airoc-connect-android

https://github.com/Infineon/airoc-connect-ios

2 Getting started

The AIROC™ Bluetooth® Connect App – Android and iOS versions – is available for download for free in Google Play and the App Store respectively.

2.1 Install the Application

To install the application:

a. For Android:

- Open the Google Play application in your Android device, search for the **AIROC™ Bluetooth® Connect App**, select it, and install.
- Click **Accept** on the application permission dialog.
- Launch the **AIROC™ Bluetooth® Connect App** from the application menu.

b. For iOS:

- Open the **App Store** in your iOS device, search for the **AIROC™ Bluetooth® Connect App**, select it, and install.
- When complete, select **Open**.

2.2 Connect to a device

This section briefly describes how to connect to a Bluetooth® LE peripheral device. This example uses the CY8CKIT-042-BLE Pioneer kit running a PSoC™ Creator 4.4 example project as the peripheral device.

1. Set up the CY8CKIT-042-BLE Pioneer kit using the steps provided in:

   AN91267 – Getting Started with PSoC™ 4 CY8C4xxx-BL MCU with AIROC™ Bluetooth® LE

2. Ensure that the kit is advertising.
3. Launch the **AIROC™ Bluetooth® Connect App**. The splash screen displays before the application displays the **Devices** list screen.
4. When first launched, the application requests:

   a. For Android:

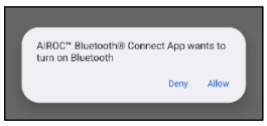
   - Bluetooth® access (Android 12 and later) – to interact with Bluetooth® devices
   - Location access (Android 6 and later) – to discover nearby Bluetooth® devices
   - Storage access (Android 6 and later) – to work with cyacd files located outside of the app media directory

   b. For iOS:

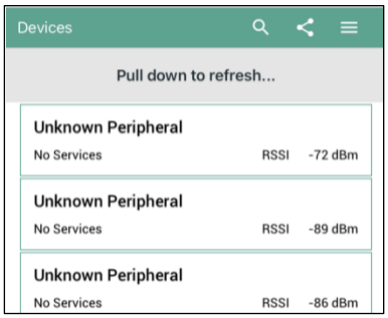
   - Notification access – to send notifications and alerts

   To use the application, accept the permissions requests.

5. If Bluetooth® is turned off on your device, the OS will prompt you to turn it on.

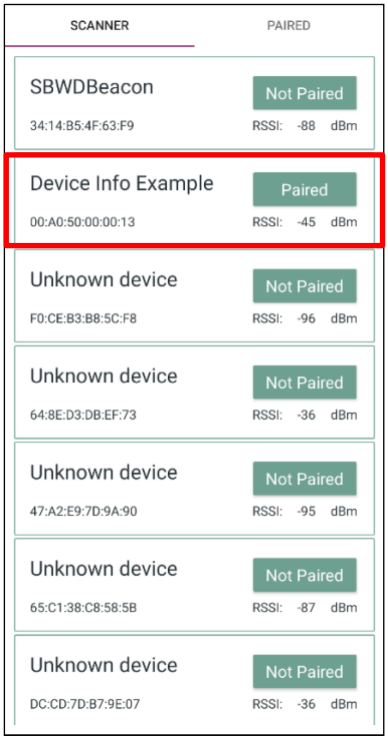


6. The application discovers the device by default when opened. To manually refresh the **Devices** list, pull the **Devices** list screen down.



7. The application lists all discovered Bluetooth® LE devices. If your Bluetooth® LE device does not display in the list, check if it is powered on and advertising.

8. Tap the desired device displayed in the **Devices** list to connect to it. In this case, **Device Info Example**:



9. Pairing/Un-pairing

   If the peripheral device requires pairing for further operation, your device will display a series of prompts to complete the pairing.

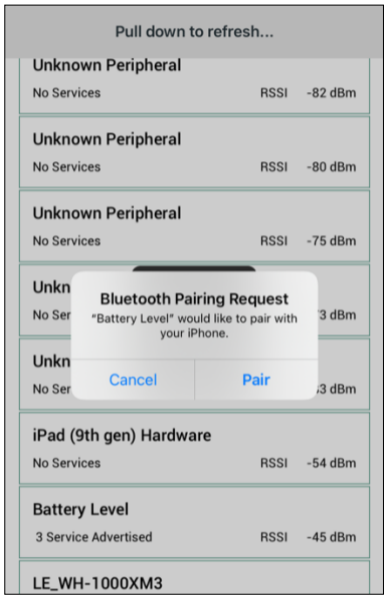
   a. For Android:

      - The application displays the pairing status next to the device name in the **Devices** list screen. You can pair or un-pair with the device by selecting **Paired** or **Not Paired**.



b. For iOS:

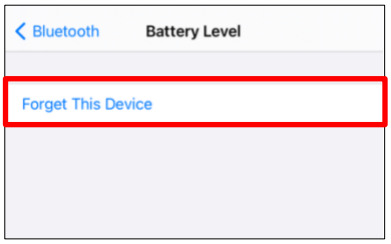
- When a peripheral requires pairing, iOS will prompt you to accept the pairing request. After you accept the pairing request, the application will complete the connection. If you reject the pairing request, the services that do not require pairing will still be available.



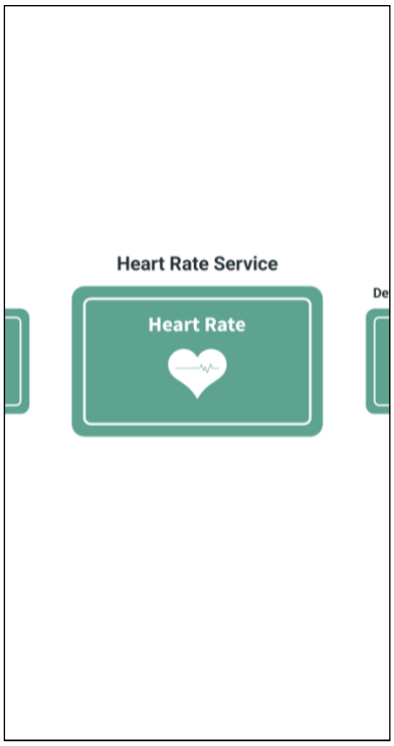
- In **Settings** > **Bluetooth**, if the peripheral device is listed under **MY DEVICES** along with the information **i** icon next to the connection status, then, it is paired with your iOS device.



- To un-pair the device, select the information icon. In the subsequent screen, select **Forget This Device**.



10. When the AIROC™ Bluetooth® Connect App successfully connects to the peripheral device, the application will display the carousel of the services and screens available in the device. See Carousel for more details.



- To view all the services, swipe your finger across the carousel.
- To go to the desired service, tap it.

11. You can disconnect from the device by navigating back from the carousel to the **Devices** list screen.

2.3 Uninstall the application

To uninstall the application:

a. For Android:

- Open the Google Play application.
- Select **My apps** on the menu to see the list of installed applications.
- Select the **AIROC™ Bluetooth® Connect App** and in the subsequent screen select the **Uninstall** button to remove the application and its associated data permanently from the Android device.

b. For iOS:

- From the application menu, long-press on the **AIROC™ Bluetooth® Connect App**.
- Tap the icon to uninstall the application.
- Select **Delete** when asked to confirm.

3 GUI description

This section describes the menu items for both Android and iOS. Some of them differ, then, specified either with a screenshot or text.

3.1 Toolbar

The Toolbar is almost the same for Android and iOS.

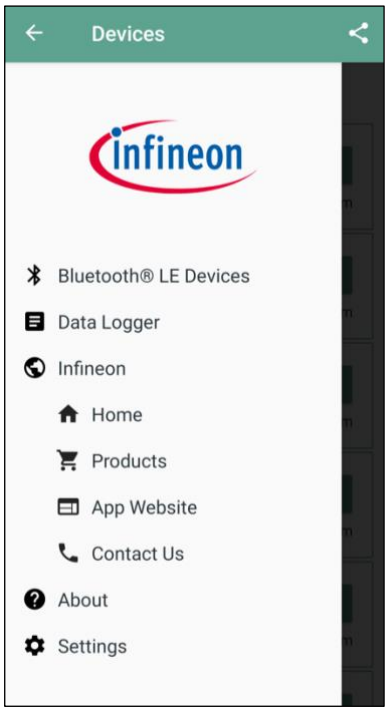
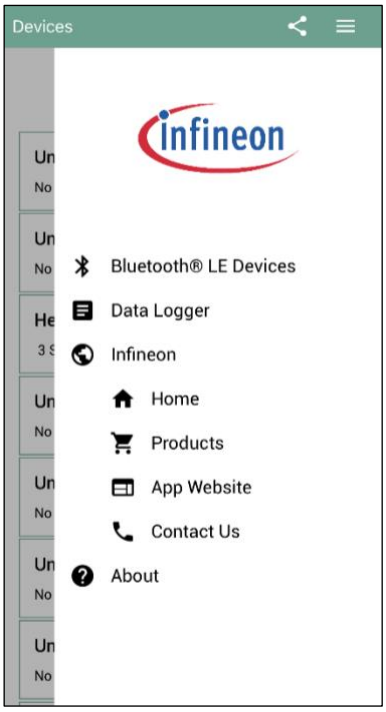


Toolbar menu:

Menu item	Description
	Side menu
	Share screenshot / log
	Filter

3.2 Menu items

Some menu items differ for Android and iOS.

For Android	For iOS
	

Menu details

Menu item	Description
Bluetooth® LE Devices	Refreshes the **Bluetooth® LE Devices** list on the **Devices** list toolbar. It is equivalent to the “Pull down to refresh…” action on the **Devices** list toolbar.
Data Logger	Opens **Data Logger** to view the current date logs. For iOS, displays by default.

Menu item	Description
Infineon	Provides information in the form of sub-items linked to **Infineon** relevant web pages that open in a web browser, provided your device is connected to the Internet.
Home	Opens the **Home** page of the Infineon Technologies website.
Products	Opens the Infineon Technologies Bluetooth® LE **Products** webpage.
App Website	Opens the AIROC™ Bluetooth® Connect App Mobile **App Website** with the AIROC™ Bluetooth® Connect App user guide.
Contact Us	Opens the Infineon **Contact Us** web page. When your device is not connected to the Internet, it displays the contact telephone number of Infineon Service Center.
About	Displays the version of the AIROC™ Bluetooth® Connect App and copyright details.
Settings	Opens the application **Settings**. Available only in Android.

3.2.1 Share

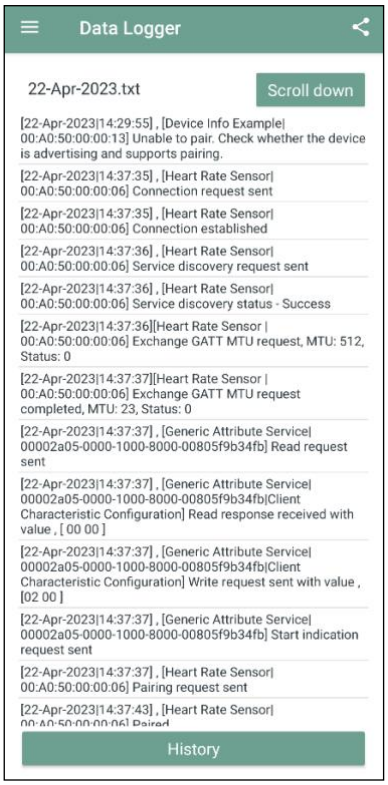
The **Share** option allows you to share any screenshot to various applications listed in the system including email, social media, etc., provided these applications are already installed.

3.2.2 Data Logger

The application logs all the Bluetooth® LE-related activities in a text file and automatically creates a log file with the current date as the name. The application creates one log file per day and stores the last seven days' logs.

Note: Logs older than seven days are deleted automatically.

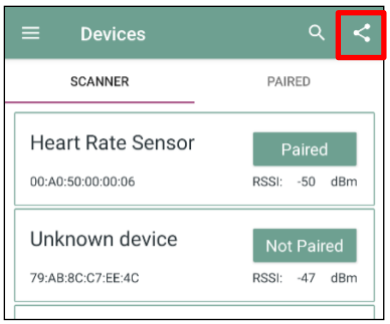
The **Data Logger** can be viewed from all the screens in the application. It displays the current date log file by default. To view older logs, select the **History** button. Use the **Share** option to share logs.



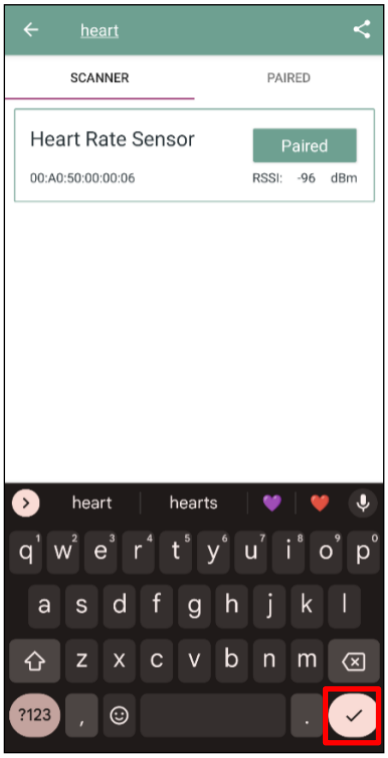
3.2.3 Device filter

The device filter allows you to filter the displayed devices by the device name.

1. Select the filter icon.

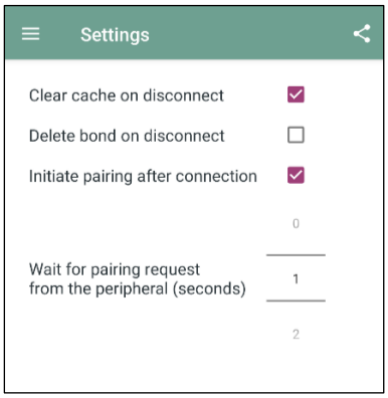


2. In the text field, type the name of the device and select the search icon in the keypad.



3.2.4 Settings screen (Android)

The **Settings** screen is available only for Android.



3.2.4.1 Clear cache on disconnect

This option is enabled by default. The Bluetooth® device cache will be automatically cleared after disconnecting from the device. Thus, the GATT DB discovery will work from the peer device (not from the local cache). This option is useful when working with code examples.

3.2.4.2 Delete bond on disconnect

This option is disabled by default. The bonding information will be automatically deleted after disconnecting from the device. Hence, the next time you connect to the same device, the bonding procedure will be repeated.

3.2.4.3 Initiate pairing after connection

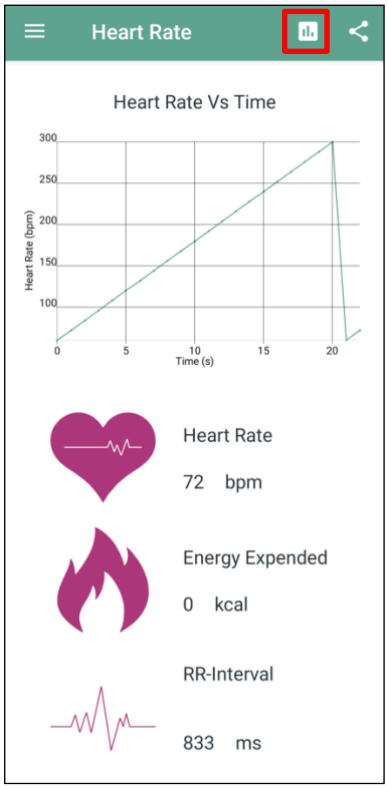
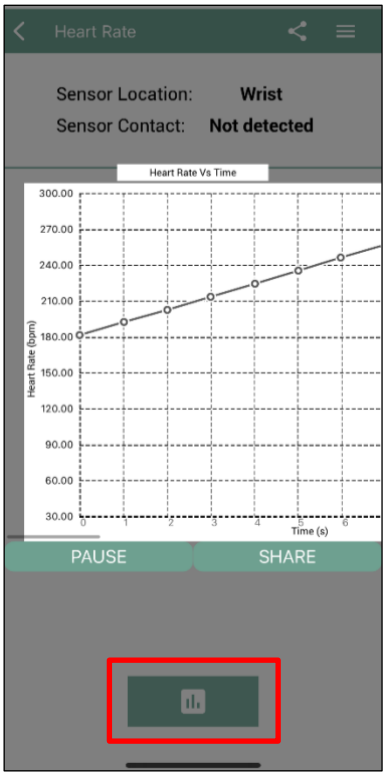
This option is enabled by default. If pairing is supported by the peer device, the AIROC™ Bluetooth® Connect App will enable the indication for the Service Changed GATT characteristic (if the latter exists) and establish the connection with the peer device. This, in turn, automatically launches the pairing procedure.

3.2.4.4 Wait for pairing request (seconds)

This option is set to 1 second by default. Some code examples are pairing initiators themselves and initiate pairing after the connection is established. This counter defines the number of seconds the AIROC™ Bluetooth® Connect App will wait for the incoming pairing request after the connection is established and before attempting pairing by itself if the “Initiate pairing after connection” option is enabled.

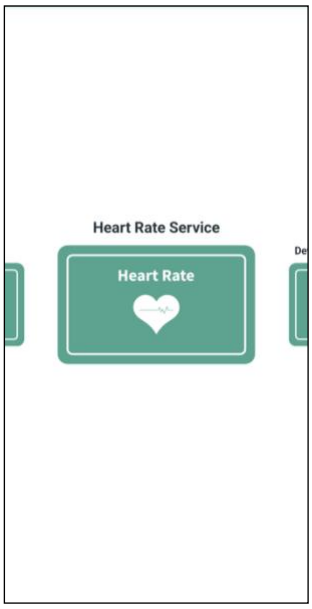
3.2.5 Graph

For some of the services, the application allows you to view real time values received from the peripheral device. Select the **Graph** icon to view the graph.

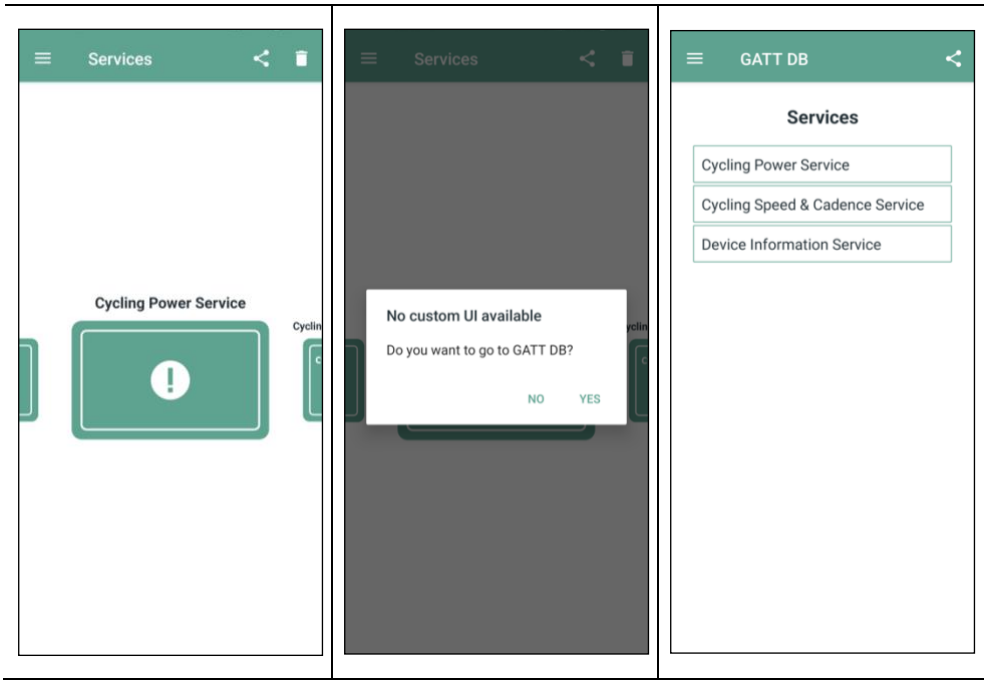
For Android	For iOS
	

3.2.6 Carousel

The services supported by the peripherals are displayed on the carousel when the device is connected. Swipe your finger across the carousel to view the service-specific screen.



Unsupported services do not have a specific screen in the application. On selecting the service on the carousel, the application provides an option to view the service details in the GATT DB screen.



3.2.7 Clear cache



The **Clear cache** option empties the Bluetooth® device cache. When the GATT DB discovery runs the next time, the peer device will be polled and not the local cache. This option is useful when working with example projects.

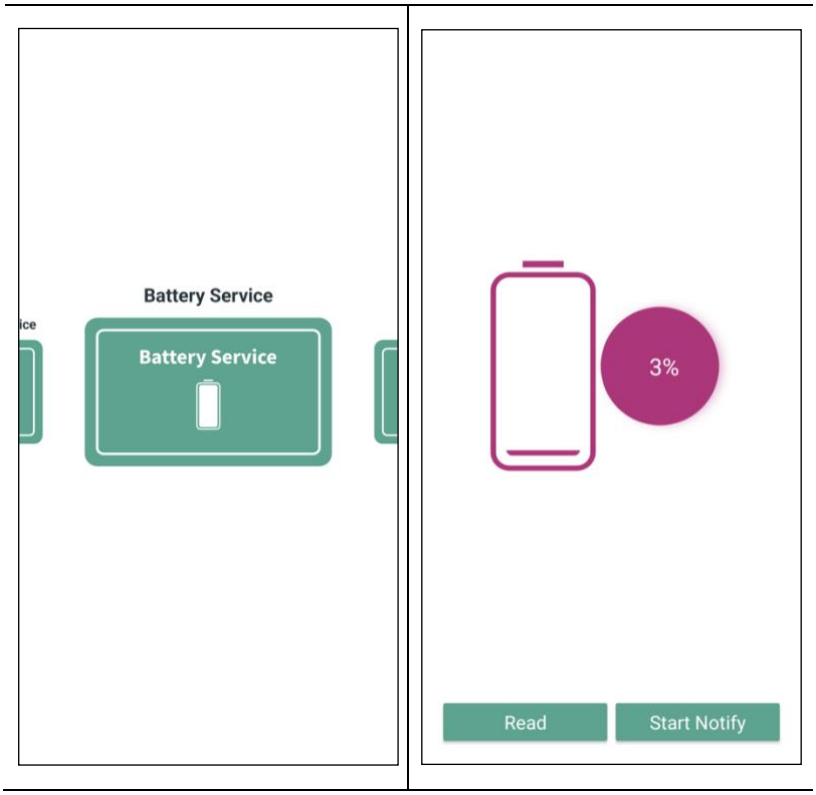
4 Services and screens

This section describes the various services and screens available on the carousel for both Android and iOS.

4.1 Adopted Bluetooth® LE Profiles and services

4.1.1 Battery Service

The **Battery Service** screen displays information on the state of the device battery. The **Read** button reads and displays the value. Press the **Start Notify** button to enable notifications.

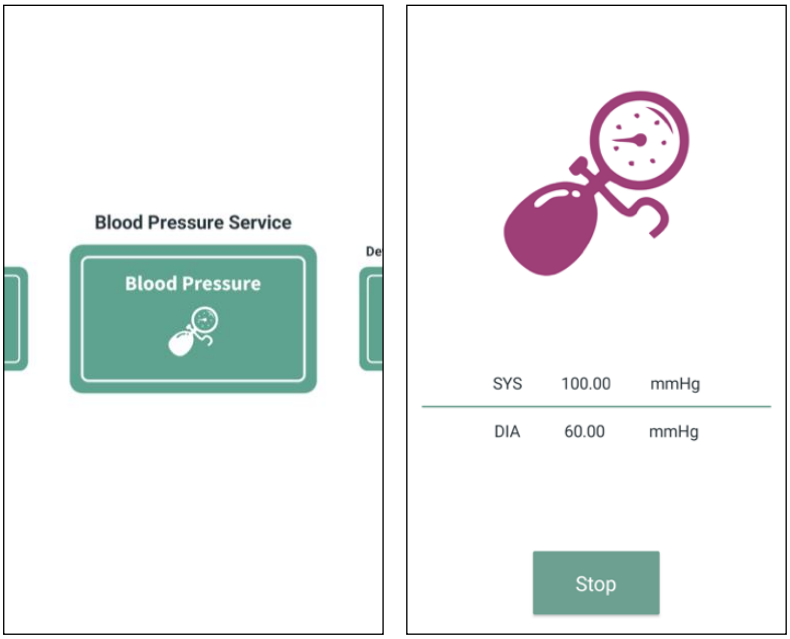


Details

PSoC™ Creator Example	BLE_Battery_Level
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Battery&filter=

4.1.2 Blood Pressure Service

The **Blood Pressure** screen receives data from the Bluetooth® LE device over the **Blood Pressure** profile. It provides a button to **START** or **STOP** the blood pressure evaluation.



Characteristics

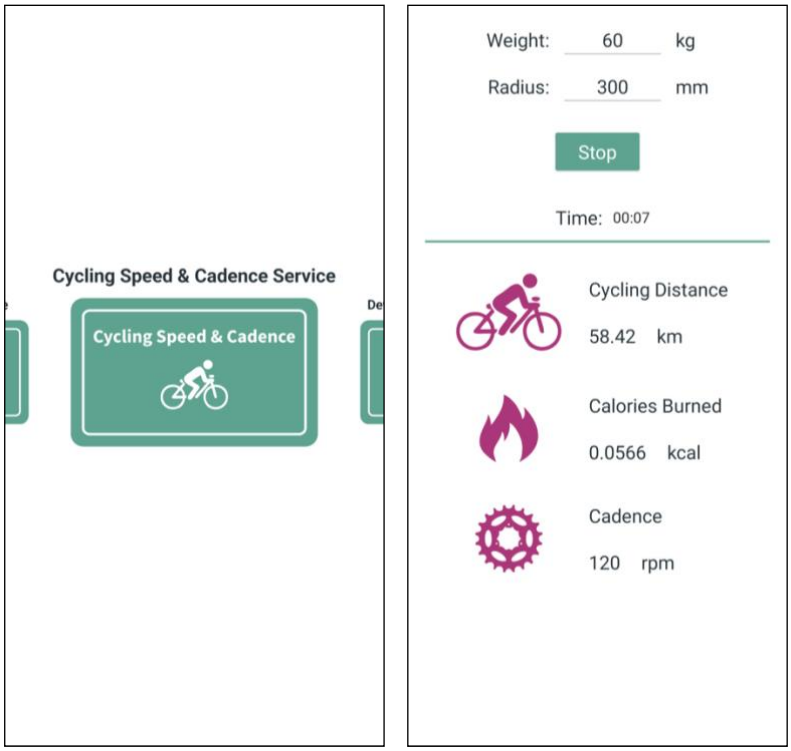
Characteristic field	Description
SYS	The systolic blood pressure value.
DIA	The diastolic blood pressure value.

Details

PSoC™ Creator Example	BLE_Blood_Pressure_Sensor
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Blood&filter=

4.1.3 Cycling Speed and Cadence Service

To use the **Cycling Speed and Cadence** screen, enter a weight value for weight to measure the calories burnt during the cycling activity.



Characteristics

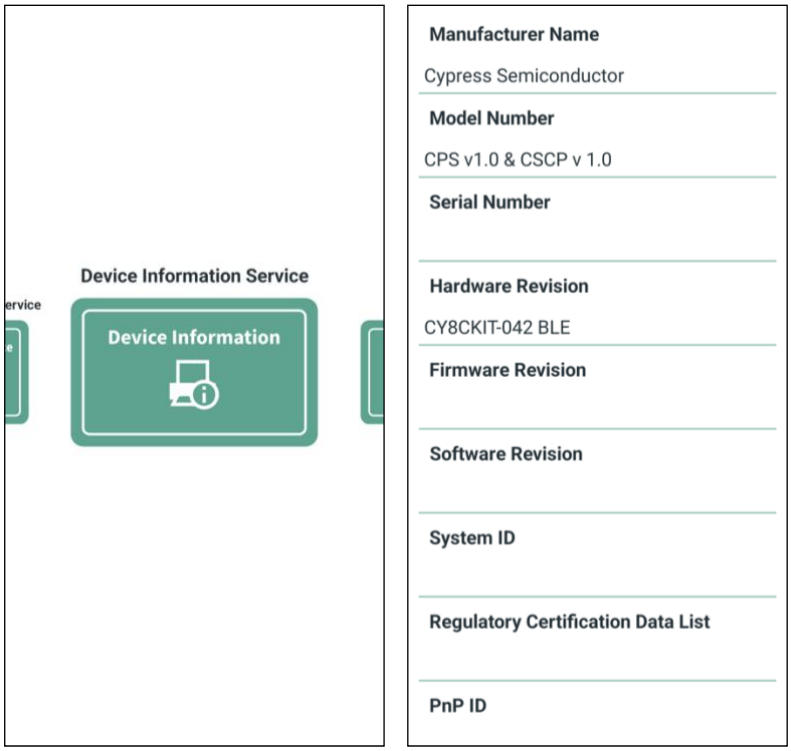
Characteristic field	Description
Cadence	The number of wheel rotations per minute.
Distance Covered	The total distance covered in given time.
Calories Burnt	The calories burnt in given time.

Details

PSoC™ Creator Example	BLE_Cycling_Sensor
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Cycling&filter=

4.1.4 Device Information Service

The **Device Information Service** screen displays the values of the characteristics in the **Device Information Service**.



Characteristics:

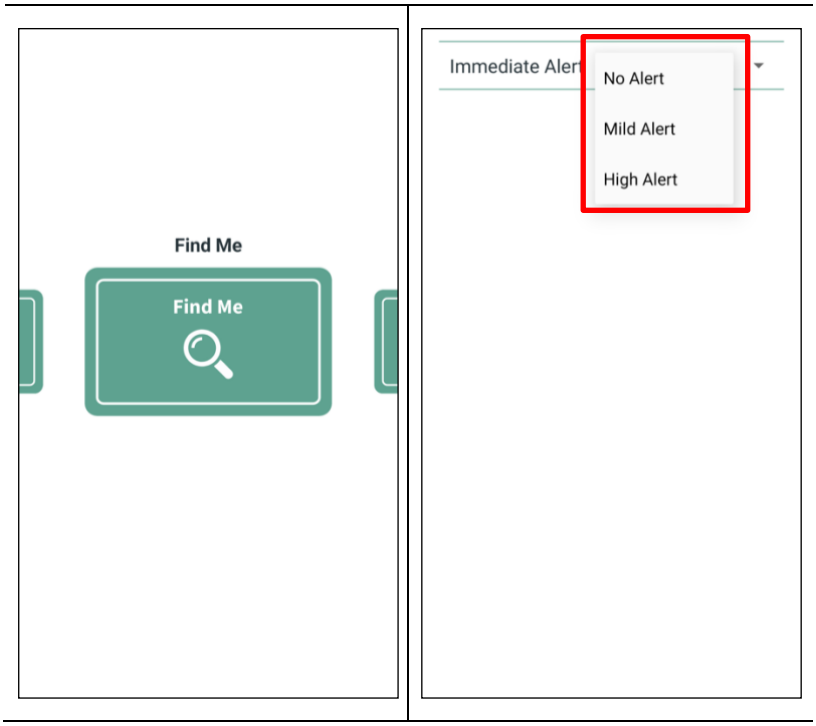
- Manufacturer Name
- Model Number
- Serial Number
- Hardware Revision
- Software Revision
- Firmware Revision
- System ID
- Regulatory Certification Data List
- PnP ID

Details

PSoC™ Creator Example	BLE_Device_Information_Service
References	GATT specification: https://www.bluetooth.com/specifications/specs/device-information-service-1-1/

4.1.5 Find Me Profile (Immediate Alert Service)

The **Immediate Alert Service** screen displays as **Find Me** screen, which allows you to select an Alert Level. The peripheral device will respond accordingly.



Characteristics

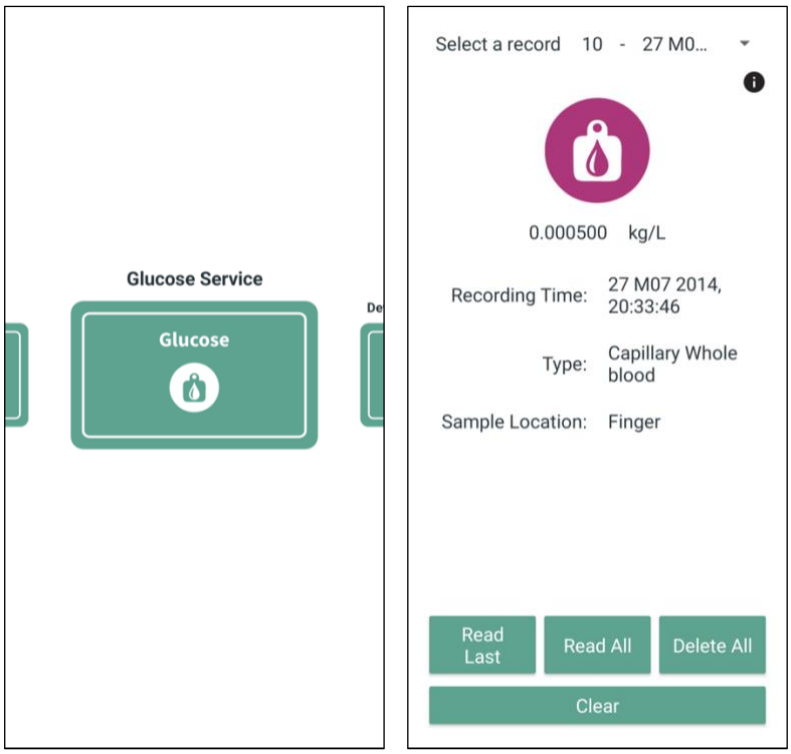
Characteristic field	Description
Alert Level	No Alert, Mid Alert, High Alert

Details

PSoC™ Creator Example	BLE_FindMe
References	GATT specification: Immediate Alert https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Immediate+Alert

4.1.6 Glucose Service

The **Glucose Service** screen displays records from the peripheral device.

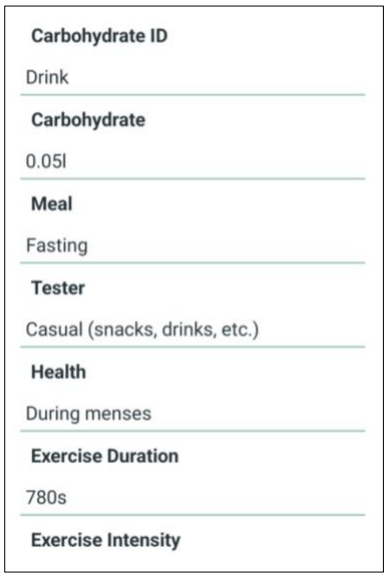


You can view records using the **READ LAST** or **READ ALL** button. **READ LAST** displays only the last record. **READ ALL** displays the last record by default and also all records from the peripheral device. Select a record in the drop-down list to view it. Pressing the **DELETE ALL** button will permanently delete the record.

The **CLEAR** button removes only records displayed on the screen but not the records on the peripheral.

The drop-down list displays **No Record** when no record is retrieved or when the retrieved records are removed by selecting **DELETE ALL** or **CLEAR**.

If there is more information that can be retrieved, a small **i** icon will display on the top right below the drop-down list. Pressing the icon will open a new screen with the context information.



Characteristics

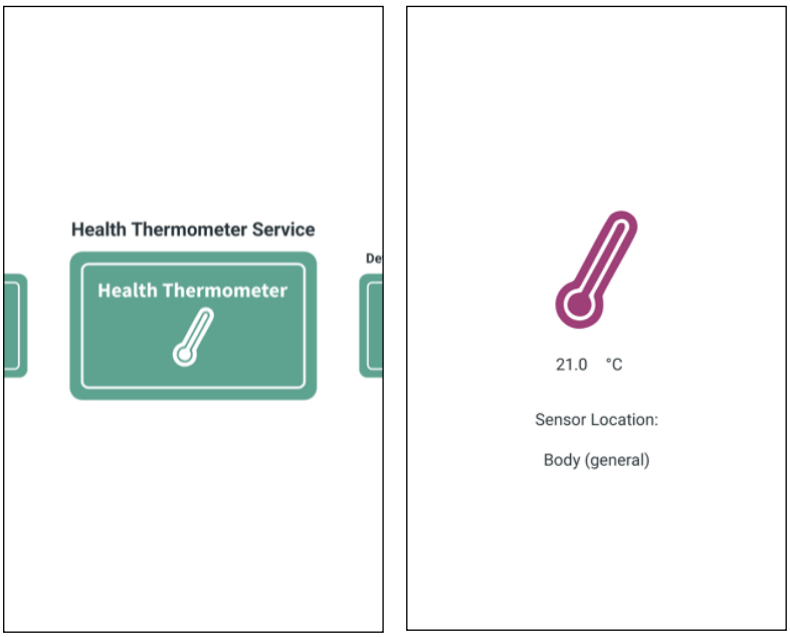
Characteristic field	Description
Glucose Measurement	Measurement of the glucose level in kg/L
Recording Time	The timestamp including date and time of the measurement
Type	The type of the glucose measurement (for example, capillary whole blood)
Sample Location	Where the blood sample was taken

Details

PSoC™ Creator Example	BLE_Glucose_Meter
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Glucose&filter=

4.1.7 Health Thermometer Service

The **Health Thermometer Service** screen notifications are enabled by default.



Characteristics

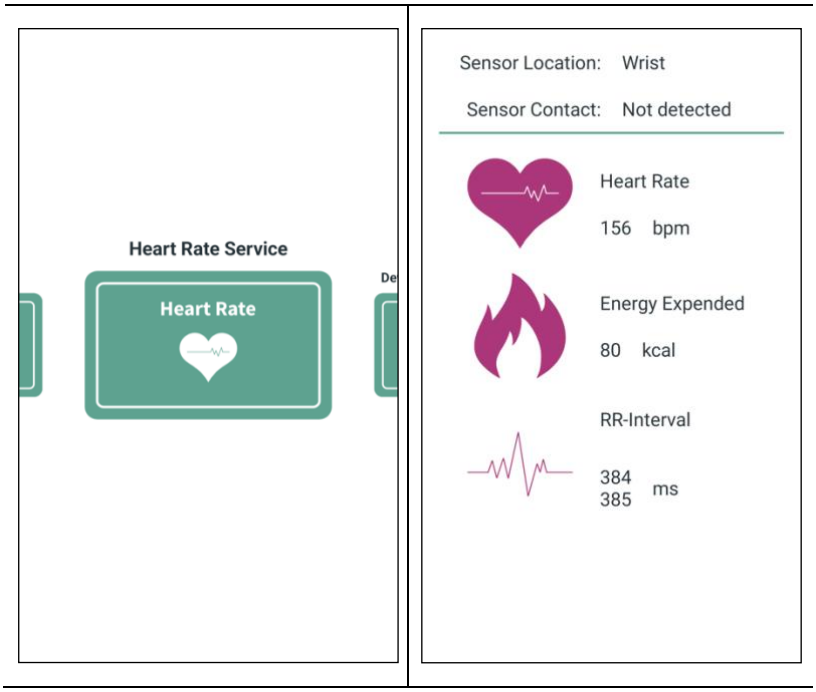
Characteristic field	Description
Temperature Measurement	The number of degrees Celsius or Fahrenheit.
Sensor Location	Describes the type of temperature measurement relative to the location on the human body where the temperature was measured

Details

PSoC™ Creator Example	BLE_Temperature_Measurement
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Health+Thermometer&filter=

4.1.8 Heart Rate Service

The **Heart Rate Service** notifications are enabled by default and characteristic values are displayed as soon as you enter the screen.



Characteristics

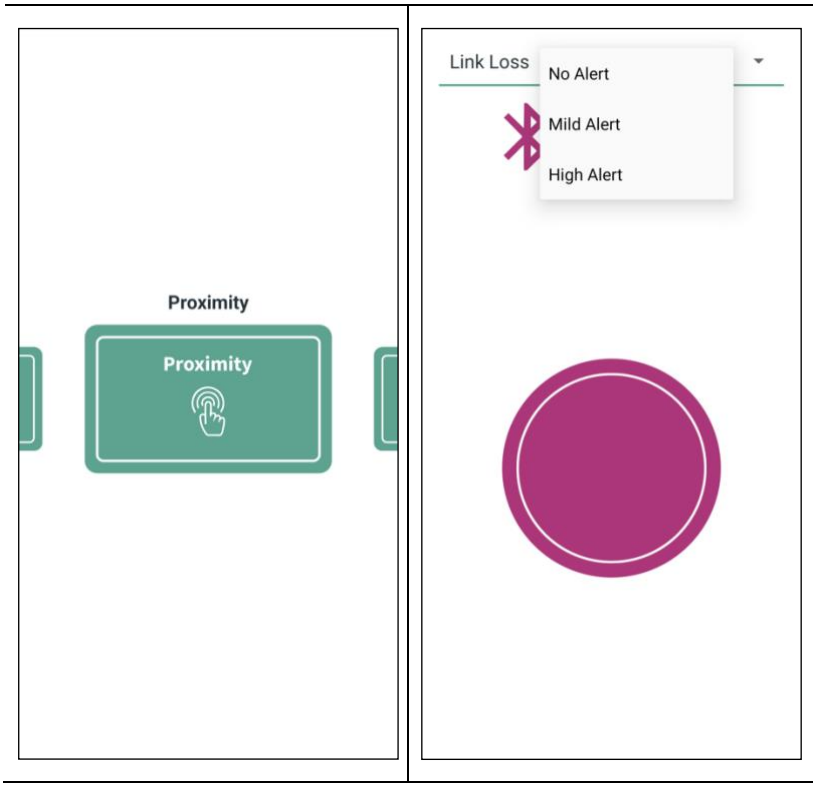
Characteristic field	Description
Heart Rate Measurement	The number of heart beats per minute.
Energy Expended	Accumulated energy expended in kilojoules since the last time it was reset.
RR – Interval	Represents the time between two consecutive R waves in an Electrocardiogram (ECG) waveform

Details

PSoC™ Creator Example	BLE_Heart_Rate_Sensor
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Heart+Rate+Sensor

4.1.9 Proximity Profile (Link Loss and Tx Power Services)

The **Link Loss and Tx Power Services** are combined under the **Proximity** screen, which allows you to select the type of the **Alert Level** for **Link Loss Service**. For the **Tx Power Service**, the **Proximity** screen displays the value of the Tx Power Level characteristic. The Tx Power Level value also displays graphically.



Characteristics

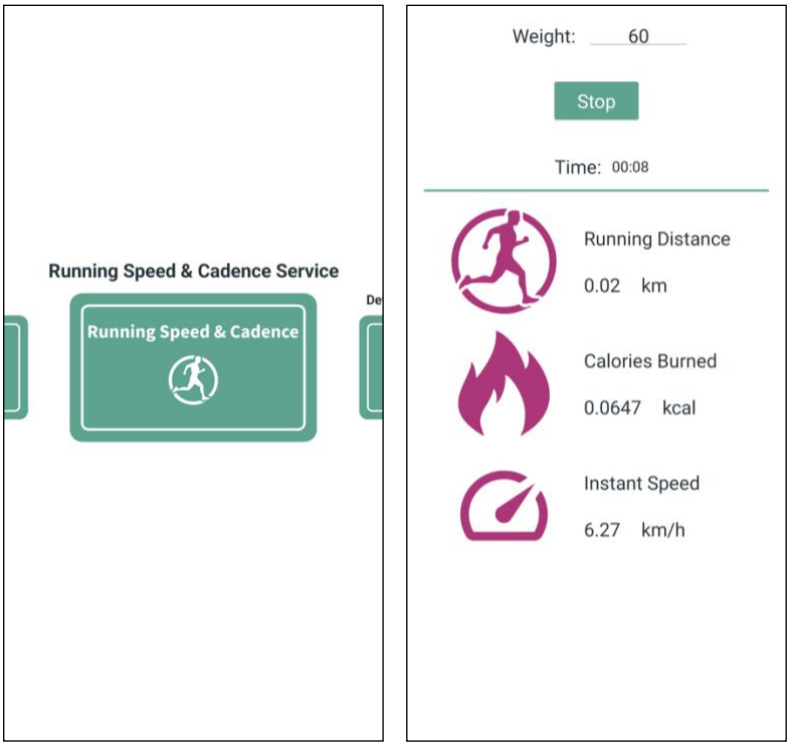
Characteristic field	Description
Alert Level	No Alert, Mid Alert, High Alert

Details

PSoC™ Creator Example	BLE_FindMe, BLE_Proximity
References	GATT specification: Immediate Alert https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Immediate+Alert Link Loss https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Link+Loss TX Power https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=TX+Power

4.1.10 Running Speed and Cadence Service

To use the **Running Speed and Cadence Service** screen, enter a weight value to measure the calories burnt during the running activity.



Characteristics

Characteristic field	Description
Avg Speed	The average speed of running.
Distance Covered	The total distance covered in given time.
Calories Burnt	The calories burnt in given time.

Details

PSoC™ Creator Example	BLE_Running_Speed_Cadence
References	GATT specification: https://www.bluetooth.com/specifications/specs/?types=adopted&keyword=Running+Speed+Cadence

4.2 Custom Bluetooth® LE Profiles/Services

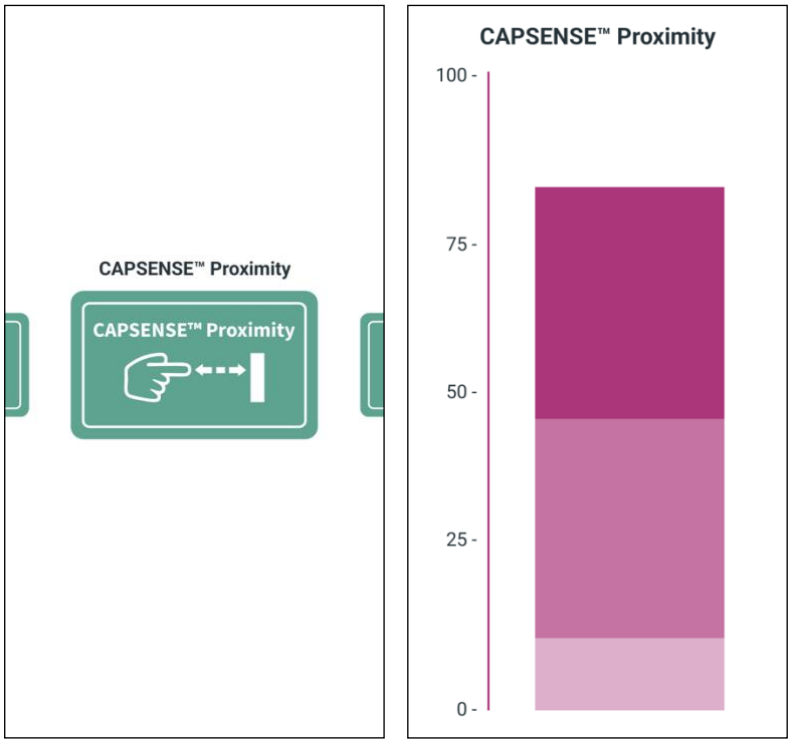
4.2.1 CAPSENSE™ Profile (CAPSENSE™ Service)

The Infineon CAPSENSE™ Profile is used to send CAPSENSE™ data over a Bluetooth® LE link. One service is defined with multiple characteristics, each defining one type of a CAPSENSE™ widget. The application provides a separate screen and carousel image for each supported characteristic:

- CAPSENSE™ Proximity
- CAPSENSE™ Slider
- CAPSENSE™ Button

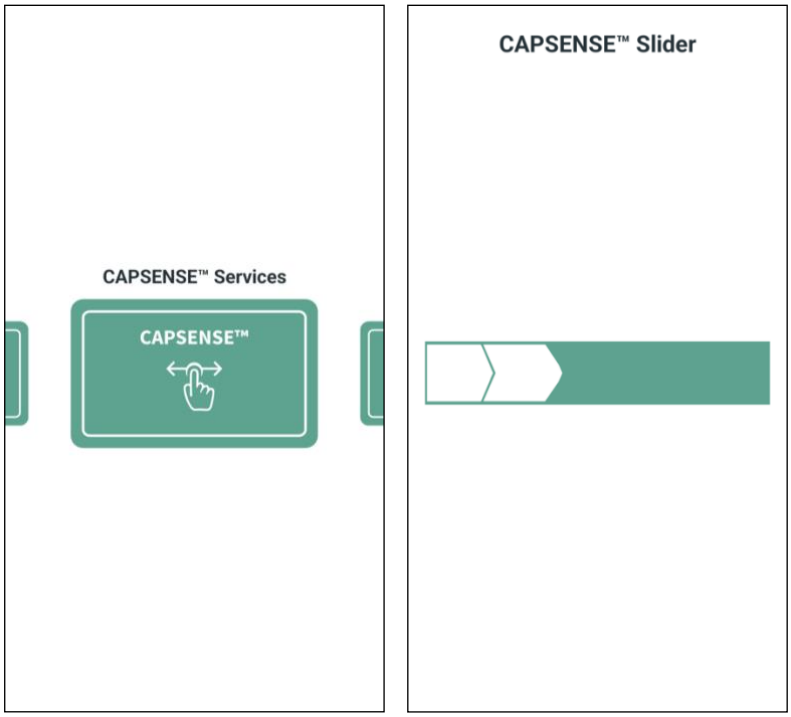
4.2.1.1 CAPSENSE™ Proximity

The **CAPSENSE™ Proximity** screen displays the proximity level notified by the **CAPSENSE™ Proximity** characteristic as a bar graph.



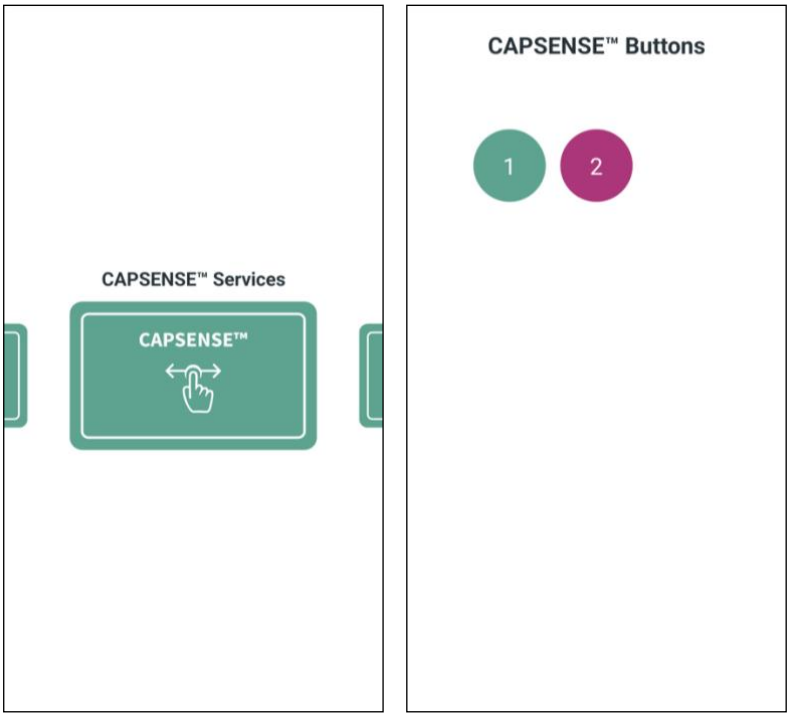
4.2.1.2 CAPSENSE™ Slider

The **CAPSENSE™ Slider** screen displays the finger position on the **CAPSENSE™ Slider** as notified by the **CAPSENSE™ Slider** characteristic.



4.2.1.3 CAPSENSE™ Buttons

The **CAPSENSE™ Buttons** screen displays the ON (dark purple)/OFF (green) states of the **CAPSENSE™ Buttons** as notified by the **CAPSENSE™ Buttons** characteristic.

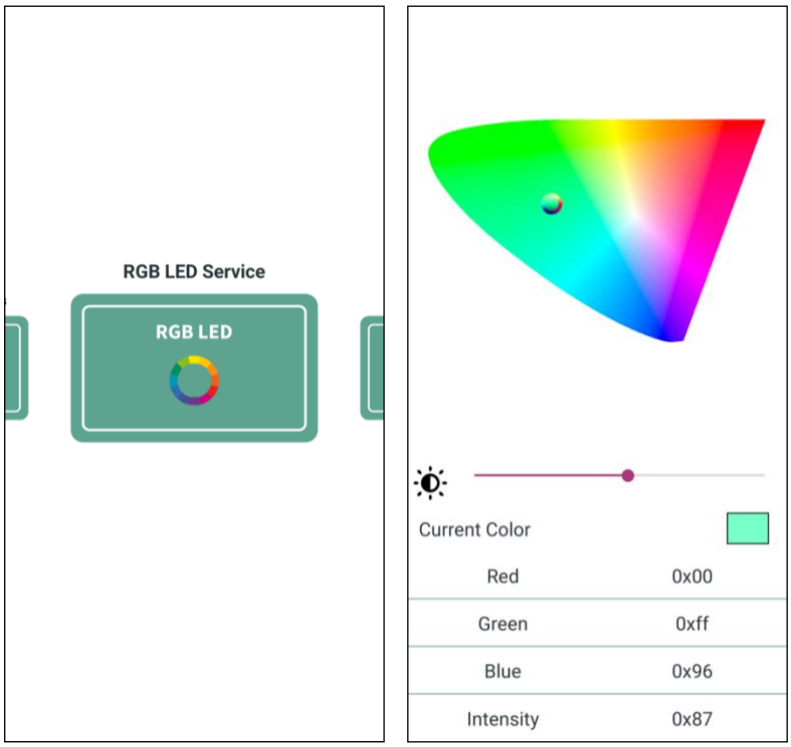


Details

PSoC™ Creator Example	PSoC_4_BLE_CapSense_Proximity, PSoC_4_BLE_CapSense_Slider_LED
References	Infineon CAPSENSE™ Profile https://www.infineon.com/cms/en/design-support/tools/utilities/wireless-connectivity/

4.2.2 RGB LED Service

The **RGB LED Service** screen displays the color gamut to select the LED color. Drag the pointer to the desired color on the color gamut. The RGB components of the selected color display in the table. The RGB LED changes its color based on the color selected in the color gamut.



Details

PSoC™ Creator Example	PSoC_4_BLE_CapSense_Slider_LED
References	Infineon RGB LED Profile https://www.infineon.com/cms/en/design-support/tools/utilities/wireless-connectivity/

4.2.3 Bootloader Service

The application supports the PSoC™ 4 MCU Bootloader and PSoC™ 6 MCU Bootloader – the CYACD and CYACD2 firmware file formats respectively.

Note: *The .cyacd and .cyacd2 files contain downloadable application data and used by AIROC™ Bluetooth® Connect App to send applications to the target module.*

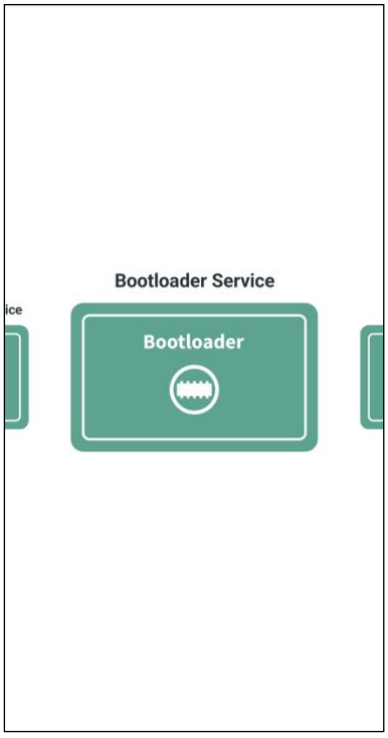
The Bootloader service allows you to upgrade the firmware on Bluetooth® LE devices that implement the Bootloader service.

This feature supports three types of upgrades:

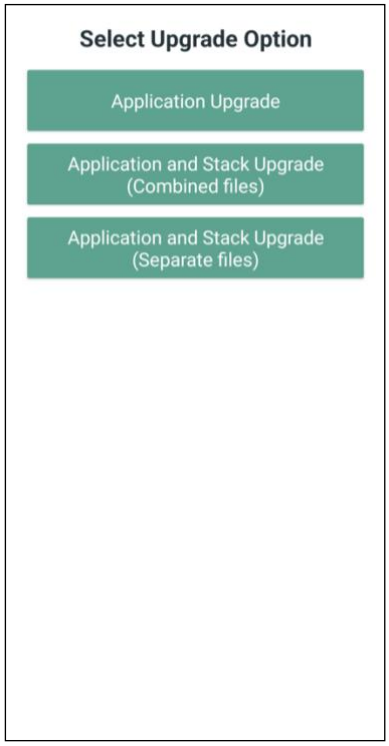
- Application-Only Upgrade
- Application and Stack Upgrade – using a single combined file
- Application and Stack Upgrade – using two separate files

To perform a firmware upgrade:

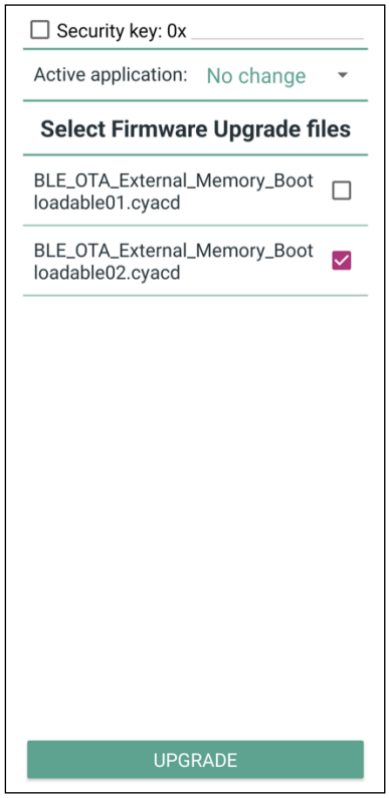
1. Ensure that the peripheral device is not paired with your device and then connect to it.
2. Select the Bootloader Service on the carousel.



3. Select the type of upgrade on the **Select Upgrade Option** screen.



4. Select an upgrade file(s) on the **Select Firmware Upgrade files** screen.



5. In the **Select Firmware Upgrade files** screen, a list of available CYACD and CYACD2 files will display. If the desired file is not present on the list, place it in the application folder.

   For Android:

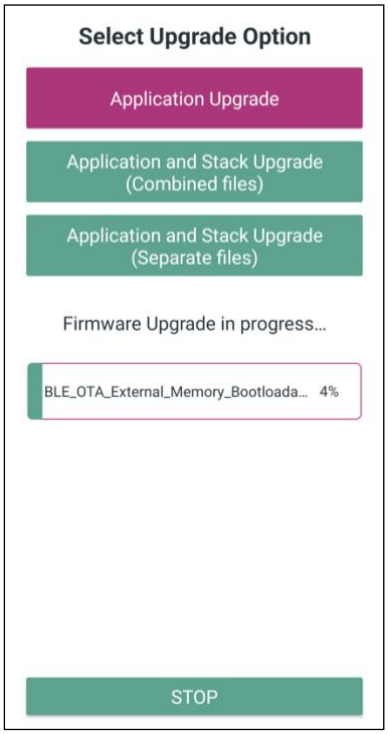
   - Connect your Android device to your computer and ensure the screen is unlocked

- Use the File Explorer on your computer to navigate to the "Android/media/com.infineon.airocbluetoothconnect" folder in your Android device
- Copy the CYACD/ CYACD2 file from your computer to the "Android/media/com.infineon.airocbluetoothconnect" folder
- After the file is transferred, view it on the **Select Firmware Upgrade files** screen. Select the file and press the **Upgrade** button.

For iOS:

- Connect your iOS device to a Mac computer
- Open iTunes on the Mac and select your iOS device
- Click **Apps.**
- Under **File Sharing**, select the AIROC™ Bluetooth® Connect App and click **Add**.
- In the subsequent window, select the CYACD/CYACD2 file to transfer and click **Open**.

6. Press the **Upgrade** button. The upgrade progress displays in the subsequent screen. Any errors are reported by the application. Press the **Stop** button, to stop upgrade.



7. When the upgrade is complete, the application will disconnect from the peer device.
8. If the CYACD/CYACD2 file is available in another location on your device or in an application such as mail/Dropbox, go to the file location and select the file.

For Android:

- Select the option to open the CYACD/CYACD2 file with the AIROC™ Bluetooth® Connect App. The file will be copied to the "Android/media/com.infineon.airocbluetoothconnect" folder, and later the file will be copied automatically every time to open the AIROC™ Bluetooth® Connect App.

For iOS:

- Press the **Share** button to display a list of applications to share the file with. Select **Open with app** and then select the **AIROC™ Bluetooth® Connect App** from the list. This will place the CYACD/CYACD2 files into the “Documents” folder and open the AIROC™ Bluetooth® Connect App.

9. When complete, the file will display on the **Select Firmware Upgrade files** screen. Select the file, the **Active Application** and **Security Key** options will be available for setting.

Note: *For the CYACD2 file: These options will be unavailable because this information is already encoded in the CYACD2 file.*

Note: *For the CYACD file: To deal with the Dual-Application Bootloader project, select the **Active Application** – Image1 or Image2. **No Change** – the default option – means the project is not the Dual-Application Bootloader project.*

Note: *For CYACD files only: To deal with the Security Key-enabled Bootloader project, enter the **Security Key**.*

Note: *For information on how to use signing/encryption of the CYACD2 files, refer to the PSoC™ Creator 4.4 code example CE222802 – PSoC 6 MCU Encrypted Bootloader.*

Note: *For CYACD2 files only: The AIROC™ Bluetooth® Connect App supports resuming from a breakpoint during the firmware upgrade process. For example, if the upgrade process fails during the SEND_DATA / PROGRAM_DATA command, the application will then resend the last SEND_DATA / PROGRAM_DATA command (up to 10 retries). If resending the SEND_DATA / PROGRAM_DATA command fails for the 10th time, the application will then repeat the complete upgrade flow (up to 10 retries). For all other failed commands, such as SET_APP_METADATA, VERIFY_APP and so on, the application will repeat the complete upgrade flow (up to 10 retries).*

Details

PSoC™ Creator Example	**BLE_External_Memory_Bootloadble, BLE_External_Memory_Bootloader**
References	https://www.infineon.com/cms/en/design-support/tools/utilities/wireless-connectivity/

4.3 GATT DB screen

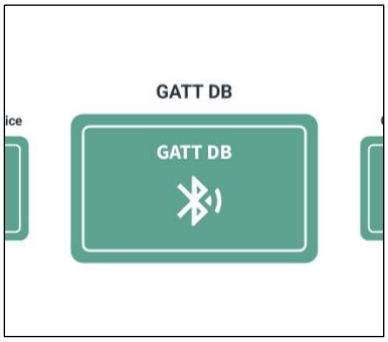
The **GATT DB** screen allows you to view the GATT database of the device to which AIROC™ Bluetooth® Connect App is connected. The **GATT DB** option is always available on the carousel screen.

Details of the GATT DB of the peripheral device:

- Services
- Characteristics and Characteristic Details
- Characteristic Descriptors and Characteristic Descriptors Details

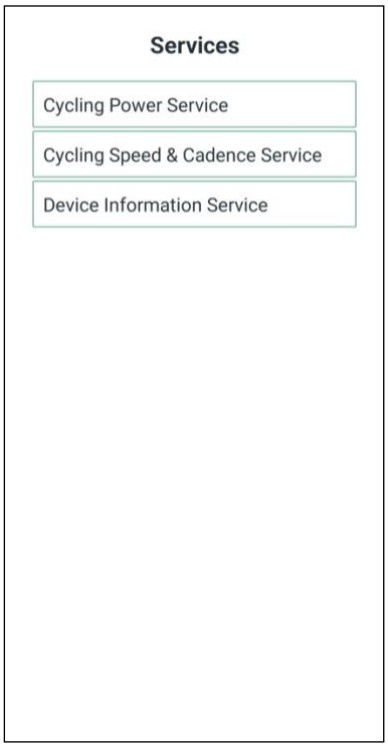
4.3.1 GATT DB selector on carousel screen

The **GATT DB** screen displays the **Read**, **Write**, **Notify**, or **Indicate** button based on the property of the current characteristic being viewed.



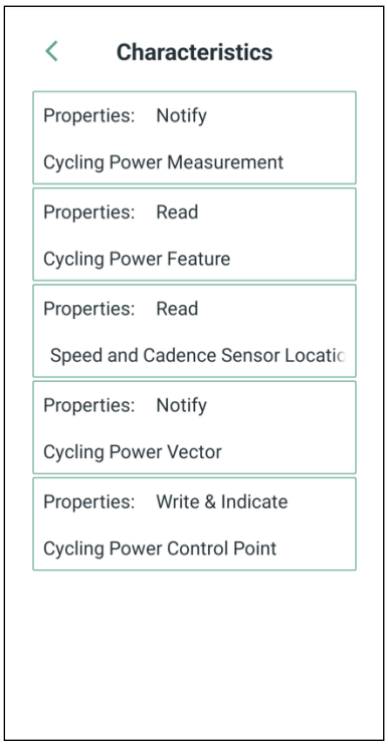
4.3.2 GATT DB Services

The **GATT DB Services** screen lists all the services supported by the device. Select a service to go to the **GATT DB Characteristics** screen.



4.3.3 GATT DB Characteristics

The **GATT DB Characteristics** screen lists all the characteristics associated with the selected service. Select a characteristic to go to the **GATT DB Characteristic Details** screen.



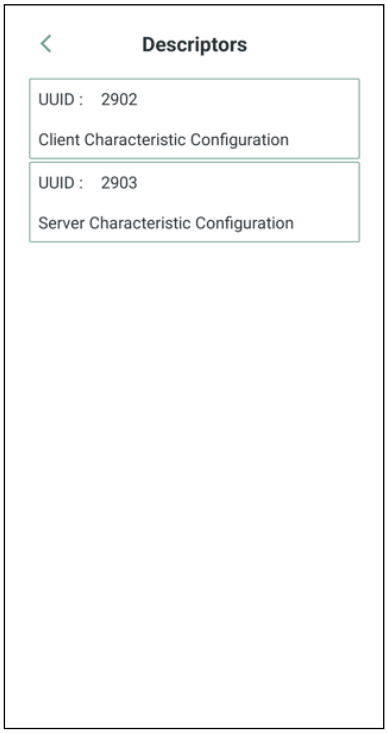
4.3.4 GATT DB Characteristics Details

The **GATT DB Characteristic Details** screen allows you to perform actions supported by the characteristics. If the characteristic has one or more associated descriptors, this screen displays the **Descriptor** button to take you to the **GATT DB Characteristic Descriptor** screen.



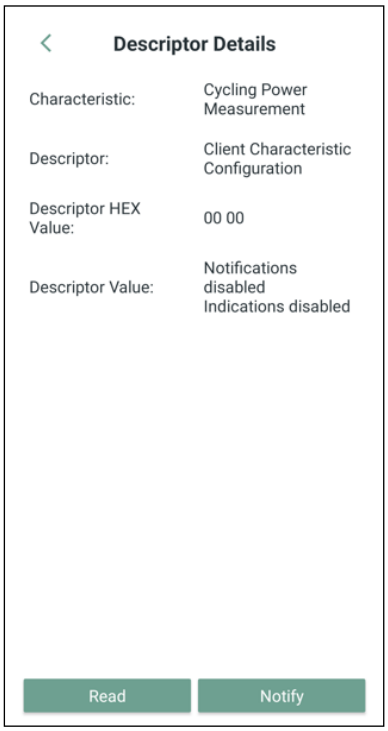
4.3.5 GATT DB Characteristic Descriptors

The **GATT DB Characteristic Descriptors** screen displays the list of descriptors associated with the characteristic. Select a descriptor to go to the **GATT DB Characteristic Descriptor Details** screen.



4.3.6 GATT DB Characteristic Descriptor Details

The **GATT DB Characteristic Descriptor Details** screen displays the various descriptor information, for example **Value**.



5 Version changes

Version	Description
1.4.0	The application has been renamed from CySmart to AIROC™ Bluetooth® Connect App.
1.5.0	Updated the visual appearance of Android and iOS apps – changed the color scheme to Infineon style. Replaced most of raster drawables with vector drawables on the carousel, services views, and menus images. Updated the copyright dates in the source code. Bumped the minimal supported iOS version to iOS12.0. Fixed the issue “The RSSI value does not display for Unknown Devices”. Updated the Android app to handle Service Changed notifications – the list of services refreshes upon notification receipt. Fixed minor bugs and improved the apps general stability.

Revision history

Revision	Date	Description
**	2022-12-15	The new document for the renamed application. *Note: There were two separate user guides for CySmart – for Android and iOS versions.*
*A	2022-12-25	Added information about the usage of the storage access for Android 6 and later to work with cyacd files located outside of the app media directory.
*B	2023-10-03	Updated the screenshots. Updated the iOS minimum version according to requirements. Added description of 1.5.0 app version changes to Version Changes table.

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Edition 2023-10-03

Published by

Infineon Technologies AG

81726 Munich, Germany

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Document reference

002-36639 Rev. *B

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