

# CySmart™ iOS and Android App Release Notes

SRN95794 Version 1.2

Release Date: December 4, 2018

CySmart™ iOS 1.2 and CySmart Android 1.2 apps are an upgrade to the CySmart 1.1 release.

This release adds support for the following key features:

- Cypress Bootloader Profile for PSoC 6 MCU Bootloader projects
- Setting of the Security Key for the Security Key - enabled PSoC 4 MCU Bootloader projects
- Setting of the Active Application for the PSoC 4 MCU Dual-Application Bootloader projects
- Automatic pairing upon connect for the CySmart Android app

This release removes support for the following key features:

- CY5672 Remote Control RDK Emulator View (Android only)

CySmart is a Bluetooth® Low Energy (BLE) app developed by Cypress Semiconductor Corporation. The CySmart app provides support for adopted Bluetooth SIG profiles and Cypress custom profiles. See the [BLE Profile Support](#) section for the list of supported profiles.

The CySmart app user guide for Android and iOS can be downloaded from [www.cypress.com/cysmartmobile](http://www.cypress.com/cysmartmobile).

## System Requirements and Recommendations

CySmart Android App 1.2

- Bluetooth Smart-Ready Android devices with Android 5.1.1 or higher

CySmart iOS App 1.2

- Minimum supported iOS (9.3.5)

## Installation

Download and install the CySmart 1.2 app for iOS devices from [Apple App Store](#).

Download and install the CySmart 1.2 app for Android devices from [Google Play Store](#).

## Updates

Check [www.cypress.com/ble](http://www.cypress.com/ble) for the latest downloads of Cypress BLE software and documentation.

## BLE Profile Support

The following profiles are supported by the CySmart app:

Profiles	Android	iOS
<b>Adopted Bluetooth Profiles</b>		
Heart rate	✓	✓
Health thermometer	✓	✓
Blood pressure	✓	✓

Profiles	Android	iOS
Cycling speed and cadence	✓	✓
Glucose	✓	✓
Running speed and cadence	✓	✓
Find Me	✓	✓
Proximity	✓	✓
Device information	✓	✓
<b>Cypress Custom Profiles</b>		
Cypress CapSense®	✓	✓
Cypress RGB LED	✓	✓
Cypress Bootloader	✓	✓

The CySmart app provides a *GATT DB* view for all the profiles. You can view the GATT attributes of the profile, organized hierarchically as services, characteristics, and descriptors.

### Supported Devices, Kits, and Software

- The CySmart Android app can be used with the BLE example projects provided in PSoC® Creator™ 4.2 or higher. See [Additional Information](#) for more details.
- The CySmart app can be used with the following BLE kits:
  - CY8CKIT-042-BLE Bluetooth Low Energy (BLE) Pioneer Kit: [www.cypress.com/CY8CKIT-042-BLE](http://www.cypress.com/CY8CKIT-042-BLE)
  - CY8CKIT-062-BLE Bluetooth Low Energy (BLE) Pioneer Kit: [www.cypress.com/CY8CKIT-062-BLE](http://www.cypress.com/CY8CKIT-062-BLE)

### Limitations and Known Issues

#	Issues and Limitations	Platform	Workaround
1	The app does not support all Bluetooth SIG adopted profiles and services such as Cycling Power and Scan Parameters.	iOS Android	You can use the GATT DB view to work with all adopted Bluetooth SIG profiles and custom profiles.
2	Some Android devices (Moto G second generation, Nexus 7, and so on) may not support peer devices that require authentication with encryption.	Android	In some Android phones, the 'IO capabilities' is set to 'No Input and No Output'. Due to this, it is not possible to authenticate a BLE link. If a peer device application (such as the Glucose example project in PSoC Creator) requires authentication with encryption, the app will not work properly. As a workaround, the security requirement of the peer device application can be reduced to 'Just Works', if allowed by the profile specification.
3	Over-the-Air (OTA) firmware update in Nexus 7 fails with error code 133 (GATT_ERROR).	Android	No workaround. This is a device-specific limitation. In Nexus 7 at times the write request fails with GATT_ERROR. This write

#	Issues and Limitations	Platform	Workaround
			request is never sent over the air. The error is triggered from an internal layer of the Android platform.
4	With Xiaomi phones (Xiaomi MI3), sometimes the app does not disconnect with the remote device when a disconnect request is issued.	Android	No workaround. The disconnect request is not seen over the air.
5	When a BLE device is reset while it is connected to the app, then subsequent attempts to connect to the device fails.	Android	This issue is due to the long supervision timeout (approximately 20 seconds) of the Android OS. Wait for the supervision timeout to expire before attempting to connect to the device.
6	At times, all notifications and indications are not disabled when you move from the GATT DB view to the carousel view.	Android	As a workaround, go back to the GATT DB view and manually disable all the active notifications and indications.
7	No automatic pairing occurs upon connect with the "Pair on connect" option enabled.	Android	Make sure your project uses security. Also make sure your project's GATT DB contains the Service Changed characteristic under the Generic Attribute service.
8	On iOS 9.3.5 pairing fails with the code example which uses pairing without bonding.	iOS	This is a limitation of iOS 9.3.5. There is no such an issue on iOS 10.3.3 and later. Either upgrade to iOS 10.3.3 or later version or, as a workaround, configure the code example to use pairing with bonding.
9	On Android 7 and later refreshing the CySmart device list returns no result after several successive refresh pull-downs.	Android	This is a limitation of Android 7 and later. Android 7 prevents applications from starting and stopping scans more than 5 times in 30 seconds. Just wait for few seconds then refresh the list again.
10	CapSense Buttons GUI doesn't show pressed buttons' statuses	iOS Android	The CySmart app expects to find buttons' statuses in the following byte positions Index 0 - Number of Buttons Index 1 - Button mask for first 8 buttons Index 2 - Button mask for last 8 buttons Make sure your code example uses this scheme. If it is not so then, as a workaround, you can view the buttons' statuses in the GATT DB view.
11	Cannot connect to the BLE Upgradable Stack code example to continue with the upgrade of the application in the scope of the	iOS	First unpair the BLE device in the iOS Settings app before connecting to it to continue with the upgrade of the application.

#	Issues and Limitations	Platform	Workaround
	two-step stack plus application upgrade process.		

## Troubleshooting

1. The CySmart app cannot connect to the PSoC Creator BLE code examples running on the Pioneer kit.  
*In the phone's Bluetooth settings: unpair the device if it is paired, restart the Bluetooth by tuning it OFF then ON. Some code examples, such as Putty, provide the possibility to clear bonding via the terminal program. Alternatively, reset the Kit or reprogram the code example.*
2. The CySmart app displays GUI pages and a list of services corresponding to the previous project after connecting to a new example project on the Pioneer kit.  
*Clear the phone's Bluetooth device cache by restarting the Bluetooth.*
3. The CySmart app does not display the BLE devices advertising on the main screen. This happens even after the user performs a "Pulldown to refresh" operation.  
*Make sure the Kit is advertising. Restart the phone's Bluetooth. Restart the CySmart app.*
4. The OTA firmware update appears stuck at 0 percent.  
*Enable the "Pair on connect" option. Unpair the device if it is paired.*
5. Pairing request is not automatically triggered when needed  
*Make sure your project uses security and its GATT DB contains the Service Changed characteristic under the Generic Attribute service. Enable the "Pair on connect" option.*

## Technical Support

For assistance, go to [www.cypress.com/support](http://www.cypress.com/support) or contact our customer support at +1 (800) 541-4736 Ext. 2 (in the USA), or +1 (408) 943-2600 Ext. 2 (International).

## Additional Information

- PSoC Creator can be downloaded from [www.cypress.com/psoccreator](http://www.cypress.com/psoccreator)
- To find an example project within PSoC Creator, see [www.cypress.com/?rID=104900](http://www.cypress.com/?rID=104900)
- For more information about the Cypress custom profiles and services, see [www.cypress.com/cypresscustomprofiles](http://www.cypress.com/cypresscustomprofiles)



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