

# AIROC™ Bluetooth® SDK 4.7.0 release notes

## About this document

### Scope and purpose

This release is an update to AIROC™ Bluetooth® SDK 4.6.3.

AIROC™ Bluetooth® SDK 4.7.0 is targeted for the CYW20706, CYW20719B2, CYW20721B2, CYW20736, CYW20835B1, CYW20819, CYW20820, CYW20829, CYW89820, CYW43012 AIROC™ Wi-Fi & Bluetooth® combo chips (for embedded Bluetooth® development only), and CYW5557x AIROC™ Wi-Fi & Bluetooth® combo chips. ModusToolbox™ software with the Bluetooth® software library provides a complete development environment to allow you to quickly create Bluetooth®-enabled IoT solutions such as smartwatches, medical devices, or home automation platforms. This document describes the features and known limitations of Bluetooth® SDK 4.7.0.

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## What's changed

## What's changed

### Features and Modifications

- [1] Added one channel LE Sniffing on CYW89829 (BTSDK-10575).
- [2] Added code examples for Bluetooth LE ISOC data on CYW20829 (BTSDK-10597).
- [3] Added API to configure TX Power on CYW20829 (BTSDK-10598).
- [4] Added BSP for CYW89829 40QFN part (BTSDK-10659).
- [5] Added support for several modules to Hello\_Client application (BTSDK-10757).
- [6] Bluetooth Classic audio pro apps have been released to public GitHub (BTSDK-9391).
- [7] Headset standalone code example is now available for CYW20706 (BTSDK-9818).
- [8] Firmware is now available as a standalone asset, rather than part of another asset (BTSDK-10623). To make use of this, existing app customers should update the btstack-integration library to latest 5.x version and update their BSP to the latest released version.

### Bug Fixes

- [9] [20706] Added recertification patches to SPI FW target (BTSDK-10663).
- [10] wiced\_bt\_dev\_read\_rssi() API no longer returns 0 value for RSSI in 20721 (Audio watch) (BTSDK-10584).
- [11] Fixed IFXV remote control example exit pairing mode issue with wake from SDS from GPIO input (power key) (BTSDK-10490).
- [12] [CYW920721M2EVK-02][Headset\_Speaker\_Pro\_AMA][Watch\_AMA] is now able to perform Alexa voice search without the error message "WARNING congested, buffer count 0 60" (BTSDK-8613).
- [13] wiced\_bt\_dev\_force\_update\_tx\_power\_table symbol is now available for CYW20719 (BTSDK-7736).
- [14] [CYW920829-Battery\_Server\_OTA] can now program the MCUboot application (ICWAEPROD-19578).
- [15] [CYW920829M2EVK-02][Bluetooth\_LE Extended Advertisement Beacon] is now able to capture Tera Term Logs (ICWAEPROD-19465).
- [16] [20829B0-TO][PSVP]legacy advertise enable/legacy advertise disable command given twice no longer gives command disallowed (FWBT-6398).
- [17] [CYW920829-KeyBoard]:[OTA]: Fixed problem with OTA upgrade whereby it failed to start and device disconnected with connection timed-out (BTSDK-10009).
- [18] CYW920829-KEYBOARD: 'Error initializing interface' pop-up no longer observed after clicking on start button to perform OTA upgrade (BTSDK-10008).

### Documentation Updates

- [19] Improved wiced\_bt\_dev\_read\_rssi() API documentation (BTSTACK-5537).
- [20] [CYW920835M2EVB-01] BSP BT version was updated on webpage (BTSDK-10521).
- [21] CYW920721M2EVK-01/-02/-03: BSP BT version on webpage was updated to 5.4 (BTSDK-10518).
- [22] Updated manufacturer name for Vela-IF820-EXT-ANT-DVK and Vela-IF820-INT-ANT-DVK BSPs (BTSDK-10678).
- [23] Fixed URL for Vela-IF820-EXT-ANT-DVK and Vela-IF820-INT-ANT-DVK (BTSDK-10619).
- [24] Updated 20719/20721 CSP and BSP readmes with current BT qualification level (BTSDK-10523).
- [25] [CYW920829M2EVK-02] CTS Server: In app readme, CTS profile hyperlink no longer redirects to 404 page not found in BT SIG website (ICWAEPROD-15092).

## What's included

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## What's included

### AIROC™ Bluetooth® SDK

This SDK includes the following:

- Bluetooth® firmware
- Platform and board support packages
- Utilities including BTSpy trace, Manufacturing Bluetooth® test tool, Client Control, and Mesh Client Control
- Peer apps for OTA and Mesh
- A rich set of connectivity APIs that allow for simplified programming of Bluetooth®/Bluetooth® LE connectivity
- Various sample applications that demonstrate how to use the Bluetooth®/Bluetooth® LE APIs
- More complex code examples that use various APIs and middleware to create a complete solution

## Design impact

### Design impact

#### Updating from previous Bluetooth® SDK versions

AIROC™ Bluetooth® SDK 4.7.0 code examples can be acquired from the [Infineon GitHub repository](#).

*Note: If you must keep an earlier Bluetooth® SDK version, create a new workspace project to pull in the newest Bluetooth® SDK assets to avoid overwriting previous asset versions.*

Do the following to create a new application using AIROC™ Bluetooth® SDK 4.7.0 with ModusToolbox™ software 3.x:

1. In the IDE, click the **New Application** link in the Quick Panel (or use **File > New > ModusToolbox™ Application**).
2. In **Project Creator**, click **AIROC™ Bluetooth® BSPs**.
3. Pick your board for Bluetooth® SDK.
4. Select a template application.
5. Click **Create** and wait for Project Creator to close.

## Supported boards

## Supported boards

Board	MCU	Connectivity
CYW920819EVB-02	CYW20819	CYW20819
CYW920819M2EVB-01	CYW20819	CYW20819
CYBT-213043-EVAL	CYBT-213043-02	CYW20819
CYBT-223058-EVAL	CYBT-223058-02	CYW20819
CYBT-263065-EVAL	CYBT-263065-02	CYW20819
CYBT-273063-EVAL	CYBT-273063-02	CYW20819
CYW920820M2EVB-01	CYW20820	CYW20820
CYW920820EVB-02	CYW20820	CYW20820
CYBT-243053-EVAL	CYBT-243053-02	CYW20820
CYBT-253059-EVAL	CYBT-253059-02	CYW20820
CYW920829M2EVB-01	CYW20829	CYW20829
CYW920835REF-RCU-01	CYW20835	CYW20835
CYW920835M2EVB-01	CYW20835	CYW20835
CYBLE-333074-EVAL-M2B	CYBLE-333074-02	CYW20835
CYBLE-343072-EVAL-M2B	CYBLE-343072-02	CYW20835
CYBLE-343072-MESH	CYBLE-343072-02	CYW20835
CYW920736M2EVB-01	CYW20736	CYW20736
CYW920721M2EVK-01	CYW20721B2	CYW20721B2
CYW920721M2EVK-02	CYW20721B2	CYW20721B2
CYW920721M2EVB-03	CYW20721B2	CYW20721B2
CYBT-413061-EVAL	CYBT-413061-02	CYW20721B2
CYBT-423060-EVAL	CYBT-423060-02	CYW20721B2
CYBT-483062-EVAL	CYBT-483062-02	CYW20721B2
CYW920719B2Q40EVB-01	CYW20719B2	CYW20719B2
CYBT-423054-EVAL	CYBT-423054-02	CYW20719B2
CYBT-413055-EVAL	CYBT-413055-02	CYW20719B2
CYBT-483056-EVAL	CYBT-483056-02	CYW20719B2
CYW920706WCDEVAL	CYW20706	CYW20706
CYBT-353027-EVAL	CYBT-353027-02	CYW20706
CYBT-343026-EVAL	CYBT-343026-02	CYW20706
CYBT-333047-EVAL	CYBT-333047-02	CYW20706
CYW989820EVB-01	CYW89820	CYW89820
CYW989820M2EVB-01	CYW89820	CYW89820
CYW943012BTEVK-01	CYW43012	CYW43012
CYW9M2BASE-43012BT	CYW43012	CYW43012
CYW955572BTEVK-01	CYW55572	CYW55572

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## Supported boards

Board	MCU	Connectivity
Vela-IF820-INT-ANT-DVK	Vela-IF820-INT-ANT	CYW20820
Vela-IF820-INT-ANT-DVK	Vela-IF820-EXT-ANT	CYW20820

## Known issues/limitations

## Known issues/limitations

**Table 1 Documentation**

Problem	Workaround
Various documents included with the release may contain incomplete information or may not have up-to-date screen captures or information.	New versions of documents, including these release notes, may be available <a href="#">online</a> .

**Table 2 Platform**

Limitation	Workaround
ModusToolbox™ software 2.4, 3.x supports Arm® GCC, Arm® compiler v6, and IAR toolchain. The Bluetooth® SDK supports only Arm® GCC.	None.
The following kits have limited availability: <ul style="list-style-type: none"> <li>• CYW920819M2EVB-01</li> <li>• CYW920820M2EVB-01</li> <li>• CYW920829M2EVB-01</li> <li>• CYW920835REF-RCU-01</li> <li>• CYW920835M2EVB-01</li> <li>• CYW920736M2EVB-01</li> <li>• CYW920721M2EVK-01</li> <li>• CYW920721M2EVK-02</li> <li>• CYW920721M2EVB-03</li> <li>• CYW989820M2EVB-01</li> <li>• CYW943012BTEVK-01</li> <li>• CYW9M2BASE-43012BT</li> <li>• CYW955572BTEVK-01</li> <li>• CYBLE-333074-EVAL-M2B</li> <li>• CYBLE-343072-MESH</li> </ul>	Contact Sales to request access.
CYW920820EVB-02 has limited availability. Note that support for this platform will be removed in a future Bluetooth® SDK release.	Contact sales to request access to the CYW920820M2EVB-01.
CYW989820EVB-01 has limited availability. Note that support for this platform will be removed in a future Bluetooth® SDK release.	Contact sales to request access to the CYW989820M2EVB-01
CYW920819EVB-02 has limited availability. Note that support for this platform will be removed in a future Bluetooth® SDK release and will be replaced by CYW920819M2EVB-01.	Contact sales to request access to the CYW920819M2EVB-01
iAP2 code examples are not included by default in Bluetooth® SDK.	Get the MFi license and contact Sales to request access to the additional code example.

## Known issues/limitations

Limitation	Workaround
PEPS code examples for the CYW89820 are not included by default in Bluetooth® SDK.	Contact Sales to request access to the additional code examples available for CYW89820.
BSPs using CYW20706 and CYW20736 chips do not support Device Configurator	Modify pin or peripheral configurations directly in wiced_platform.h, wiced_platform.c, or platform.h BSP files.



## Known issues/limitations

**Table 3 Bluetooth® SDK**

Problem	Workaround
[CYW920721M2EVK-01] HAL_ADC: Incorrect voltage values are displayed when GPIO pin P0 is connected to 3.3V (CYW20739B2-963).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVK-02] Headset_wass: Glitches are heard on PRI and no audio on SEC during audio streaming when OTA upgrade through the OTA SPP app is running (BTSDK-5256).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVK-02] Headset_wass: No voice prompt is working when the time SEC is reset during headset reconnection from PRI (BTSDK-3044).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721B2EVK-02][Headset_WASS_AMA]: DUT's LE is not getting discoverable in Alexa App (BTSDK-6944).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVK-02] Speaker Pro AMA: Need to put the DUT in discoverable mode to perform LE reconnection (BTSDK-3410).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW55572BTEVK-01] Handsfree: Echo can be observed with high mic gains on eval kit (BTSDK-8015).	Customers should implement echo cancellation algorithms on the DSP audio hardware codec vendor of choice.
[CYW920736M2EVB-01] Downloads: Back-to-back download of applications is not supported (BTSDK-3330).	After downloading an application to a device, the reset recovery operation must be performed on the device before a new application can be downloaded.
[CYW920819EVB-02] Watch: Current spikes of 200 µA on J15 (VDDIO) (BTSDK-49)	This issue will not be fixed.
[CYW920820EVB-02] The Spi_master functionality does not work after changing the pin configuration through the Device Configurator (BTSDK-1093).	Device Configurator should be used only for reserving pins and not assigning functionality. This issue will not be fixed.
[CYW920820EVB-02] The Spi_slave functionality does not work after changing the pin configuration through the Device Configurator (BTSDK-1092).	Device Configurator should be used only for reserving pins and not assigning functionality. This issue will not be fixed.
[CYW920820EVB-02] homekit_lightbulb: Characteristics datatype is displayed as "unknown" (BTSDK-4296).	This issue will be addressed in a future Bluetooth® SDK release.
[CYW920835M2EVB-01] Mesh snip light LC server is advertising as SmartLight (BTSDK-8462).	This issue will not be fixed.
[CYBT-213043-EVAL] MC receives bad packets when HCI tracing is enabled due to the low baud rate and buffer settings with Linux (BTSDK-1908).	Decrease logging on the UART for Linux. This issue will not be fixed.
[CYBT-213043-EVAL] Lecoc: Intermittently observed bad packets (BTSDK-1852).	This issue is due to CY serial bridge software. This issue will not be fixed.
When using the ANS application, the UI does not allow generating all possible alerts simultaneously (BTSDK-145).	This is a current UI limitation; the application can handle generating alerts. The UI can generate individual alerts.

**Known issues/limitations**

<b>Problem</b>	<b>Workaround</b>
[CYW955572BTEVK-01] Watch [AVRC CT]: Only Title of the track is being displayed on the track details window in AVRC CT tab after playing a song (BTSDK-9250).	This is a current limitation. Only title of the track is visible on client control.
[CYW955572BTEVK-01][Audio_Watch] Unable to reconnect AirPods Pro with DUT after disconnection (BTSDK-9184).	This is a current limitation. Reconnection between AirPods Pro and DUT fails.
[CYW955572BTEVK-01][Audio_Watch] Unable to wake DUT from Sleep via CUSTOM Button or GPIO_Pin(wake_gpio) (BTSDK-9177).	This is a current limitation. Client Control does not list the tabs supported by the embedded application and is unable to perform operations like BR/EDR or LE Discovery.
[CYW920719B2Q40EVB-01] [Watch-SPI-Transport-Mode] Unable to stop A2DP SRC Sine wave streaming via SPI (BTSDK-9157).	This is a current limitation. On clicking "Stop Streaming" button, the Sine wave sampling streaming does not stop.
[CYW920706WCDEVAL] Headset: Call audio from third party phone to DUT is not audible in wired headset connected to DUT (BTSDK-9146).	This is a current limitation. Call audio spoken from third party phone is not audible at DUT (wired headset connected to DUT).
[CYW920706WCDEVAL] A2dp_Sink: During streaming audio from peer, minor glitch/ pop sound heard randomly (BTSDK-9135).	This is a current limitation. Some minor pop sound/ glitch is observed randomly in audio.
[CYW920835M2EVB-01] After setting the Dimmable brightness 0 using Dimmer, unable to turn On/Off using peer app until it turn on again using dimmer (BTSDK-8873).	This is a current limitation. After setting the Dimmable brightness 0 using Dimmer, unable to turn On/Off using peerapp until it turn on again using dimmer.
[CYW920721B2EVK-02/CYW920721M2EVB-03] HCI_LOOP_BACK : Not getting any traces /logs in BTSPY for STOP Test (CYW20739B2-922).	This is a current limitation.
[CYW955572BTEVK-01] Audio_Gateway app: eSCO connection active even after unbond button press (BTSDK-9338).	This is a current limitation.
WsOtaUpgrade failed with Win11 (BTSDK-9243).	This is a current limitation.
[CYW955572BTEVK-01][Headset_Speaker]: AVRC CT state is not getting updated few times when play/pause is performed from peer device after re-connection from DUT (BTSDK-7092).	This is a current limitation and was determined to be a problem with the peer device.
[IOP][CYW920721M2EVK-02][Headset_Speaker]: Audio streaming is not resuming after ending an outgoing active voice call, which is initiated during audio streaming (BTSDK-5206).	This is a current limitation and was determined to be IOP issue with a specific phone.
[CYW920719B2Q40EVB-01] Hello-Sensor: Reconnection failed with Honor 8/ Honor Play phone randomly (CYW20739B2-1119)	This is a current limitation.
[CYW920721B2EVK-02/CYW920721M2EVB-03]HCI_LOOP_BACK : Not getting any traces /logs in BTSPY for STOP Test (CYW20739B2-922)	This is a current limitation.

**Known issues/limitations**

<b>Problem</b>	<b>Workaround</b>
Data_out line goes low in HFP and audio is not heard in the right channel (BTSDK-9785)	This is a current limitation.
[CYW920721M2EVB-03][Watch- AV Source ( mp3)]: "Mono" Radio button is not enabled while testing Watch AV Source MP3 (BTSDK-9750)	This is a current limitation.
[CYW955572BTEVK-01][Headset-Speaker][IOP]: Disconnection observed when making outgoing call from Honor 8 during A2dp streaming and DUT goes in unresponsive state (BTSDK-9739)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
LPN doesn't go in sleep after pressing the reset button (BTSDK-9733)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW955572BTEVK-01][Headset-Speaker][IOP]: A2dp reconnection failed with iPhone12 Pro (BTSDK-9600)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW955572BTEVK-01][Headset-Speaker] [IOP] [Samsung Galaxy S23]: Reconnection failed and DUT going in unresponsive state when performing disconnection and reconnecting during a active call (BTSDK-9593)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW955572BTEVK-01][Headset-Speaker] [IOP]: Disconnection observed when connecting to DUT from Pixel 7 Pro (BTSDK-9592)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920820M2EVB-01] [Watch: A2dp-Source] Bad media packet observed in BTSpy logs randomly (BTSDK-9588)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920820M2EVB-01] [Watch: A2dp-Source] [IOP]: Distorted audio is heard on Samsung Galaxy Buds2 Pro with SBC Mono configuration (BTSDK-9587)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920820M2EVB-01] [Watch: A2dp-Source] [IOP]: Beep sound is heard on OnePlus Buds Pro 2 with SBC Mono configuration (BTSDK-9586)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
L2CAP_ROLE_DISALLOW_SWITCH doesn't work (BTSDK-9501)	This is a current limitation.
CYW920819EVB-02: debug sticks to breakpoint (J-Link probe) (BTSDK-9487)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
CYW943012BTEVK-01: board doesn't build with BT_GPIO_3 io and BT_GPIO_5 io (BTSDK-9452)	This is a current limitation.
Need to re-configure device class after wake-up from ePDS mode (BTSDK-9442)	This is a current limitation.
Cannot pull contacts that are categorized as "Favourites" in the phonebook using the PBAP client (BTSDK-9364)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
SensorTemperature node publishing the data 2 times faster even after selecting 4times fast cadence (BTSDK-9900).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
In win MeshClient Provision UUID field, some time devices are listed without app name, after performing Scan Unprovisioned (BTSDK-9889).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
OTA doesn't start on first click in MeshClient (BTSDK-9888).	This issue is targeted to be addressed in a future Bluetooth® SDK release.

**Known issues/limitations**

<b>Problem</b>	<b>Workaround</b>
While performing Groupcast Level Get, inappropriate devices are shown in MeshClient traces, which doesn't exist (BTSDK-9887).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920835M2EVB-01/CYW920835REF-RCU-01] HID_LE_Remote/HID_LE_Remote_Control: AUTO_RECONNECT is not happening against NVIDIA shield tv pro (BTSDK-10097).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920835M2EVB-01] Hello_client/Hello_sensor apps have connection issues when programmed with DIRECT_LOAD=1 (RAM download) (BTSDK-10094)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920719B2Q40EVB-01][Audio_Gateway]: unstable SCO connection with some devices (BTSDK-10055)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920736M2EVB-01][OTA-FW-Upgrade]:Observing disconnection on next consecutive firmware upgrade after a successful upgrade (BTSDK-10154).	This issue will not be fixed. The workaround is to try again after the disconnect.
[CYW920721M2EVB-03 : IFXV-Host][CYW920835M2EVB-01 : IFXV-Remote][MAC OS] Audio Playback is not proper when playing recorded audio via Client control (BTSDK-10129).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920819M2EVB-01][btsdk-host-apps-bt-ble][ClientControl][MAC_OS] AV Source Tab is not responding (BTSDK-10430)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW20819A1] Device wakes up twice from HID OFF (BTSDK-10426)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
I2S L/R inverted on A2DP SR (BTSDK-10093)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
SDS keyscan wake up intermittent issue with mtb-example-btsdk-hid-ifxv-remote (BTSDK-10421)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
Shutdown Sleep not working in BTSDK version 4.4 and above (BTSDK-10429).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
IFXV remote control example project:: link params update / SDS issue (BTSDK-10457).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
CYW20819/CYW20820 devices may report incorrect wakeup reason in application traces when waking from HIDOFF mode for timed wakeup vs. GPIO wakeup, due to a problem with device API wiced_sleep_hid_off_wake_reason() (BTSDK-10434).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920835REF-RCU-01](HID_LE_Remote_Control/HID_IFXV-Remote_Control) Device does not reboot after OTA FW upgrade if the device PUART is connected. (BTSDK-10513)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[BTSpy] Auto scroll does not work and "bt_spy has stopped working" when tried to save the logs and the tool has already ~50K lines of log. (BTSDK-10117)	This issue is targeted to be addressed in a future Bluetooth® SDK release.

**Known issues/limitations**

<b>Problem</b>	<b>Workaround</b>
[CYW920706WCDEVAL][Firmware_Upgrade_via_OTA] Firmware Upgrade is not successful when Smartphones with Android OS v14 as peer device (BTSDK-10583).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
IFXV remote control example project :: DBFW_ASSERT_TYPE_FATAL!!! module_id: 0, id: 13b00 (BTSDK-10535).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
Core Dump and Build Error on CYW920820M2EVB-01 and CYBT-243053-EVAL for Audio Gateway Profile with watch app (BTSDK-10488).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[BTSPY] Crash observed within 5 to 10 mins of duration with 2 instances running (BTSDK-10329).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
BLE 2M PHY throughput decreases for CYW989820M2EVB-01 (BTSDK-10257).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
Pressing the user button did not respond on HRC app of CYBT-353027-EVAL (BTSDK-10768).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
LED no breathing when starting the PWM on HAL-PWM app of CYBT-343026-EVAL (BTSDK-10763)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920706WCDEVAL] Headset_Standalone app: Re-connection from DUT(F2) does not success (BTSDK-10740)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920706WCDEVAL] Watch_SPI: AVRCP connection, disconnection and re-connection issues with iPhone15 pro max (BTSDK-10729).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920706WCDEVAL] Headset_Standalone app is getting coredump and then reboot while active call is present and then turn off peer BT (BTSDK-10711).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVB-03][Watch_dual_a2dp] Unable to reconnect AirPods Pro with DUT after disconnection (BTSDK-10690).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
Issue streaming .wav file audio with Audio Watch on CYBT-343026-EVAL (BTSDK-10637).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVB-03][Pro_headset_wass_AMA] When PS Switch is performed during call, disconnection is observed (BTSDK-10116).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVB-03][Pro_headset_wass_AMA] PS Switch got failed when A2DP Music is streaming (BTSDK-10115).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920721M2EVB-02][Headset_WASS_AMA]: DUT showing insufficient memory error and keep rebooting when programmed with 'AAC_SUPPORT=1' flag (BTSDK-9358).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920719B2Q40EVB-01] [IOP] Audio Gateway: SCO connection failed with Bose Speaker (BTSDK-8190).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920820M2EVB-01] Watch: Fwd seek and Rev seek operations from DUT are not working sometimes (BTSDK-7846).	This issue is targeted to be addressed in a future Bluetooth® SDK release.



**Known issues/limitations**

<b>Problem</b>	<b>Workaround</b>
[CYW920721M2EVK-02] Watch: HF connection from DUT to peer failed (BTSDK-7750)	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829-MOUSE/CYW920829-KEYBOARD][AIROC-LE_CYW20829_Mouse/AIROC-LE_CYW20829_Keyboard] Warning message is observed on building the application (ICWAEPROD-19495).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02] HelloClient is getting disconnected from helloSensors (3) and android peer with a reason of connection timeout (ICWAEPROD-18314).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[89829-ES100][HelloSensor & HelloClient] BTspy logs are not coming with toolchain ARM (ICWAEPROD-18250).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[89829 ES100] [Hello Client] LED is not blinking on Hello Client when resetting using User button (ICWAEPROD-18070).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829-Battery_Server_OTA] Unable to perform OTA via Android application (ICWAEPROD-18056).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02/CYW989829M2EVB-01][Bluetooth_LE_PAwR_Client][Bluetooth_LE_PAwR_Server] The Counter value in all the 3 servers are not identical and Counter value in the Client is not equal to the 3x of Server's Counter value (ICWAEPROD-17929).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829-VR] Green LED does not blink on key press (ICWAEPROD-16379).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02][Bluetooth_LE_Hello_Client][5/5] Behavior of LED-2 light is not proper during erasing of Bonding information (ICWAEPROD-16378).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829-VR] Failed to create VoiceRemote app when using ModusToolbox 3.0 version (ICWAEPROD-14385).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
CYW920829-VR(Voice Remote) : Getting junk data in app traces while giving voice commands (ICWAEPROD-9320).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
mtb-example-btstack-freertos-cyw20829-mouse: Failed to build on CYW920829-MOUSE with ARM and IAR compiler (ICWAEAPSO-863).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[20829B0-TO][PSVP][BT_4_2][Scatternet]IUT as Peripheral sent LL_START_ENC_RSP PDU with CCM Packet counter 1 which leads to Connection drop by Central with a reason MIC Failure (FWBT-7395).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[20829B0] Link Quality Stats - rxGoodPktCount not being incremented for empty packets if they have no CRC errors (FWBT-6594).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
20829 PAWR deep sleep response lost (CYW20829B0-802).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
BLE throughput between two 20829 devices is less than ~1300kbps(max throughput) (CYW20829B0-732).	This issue is targeted to be addressed in a future Bluetooth® SDK release.

## Known issues/limitations

Problem	Workaround
Observing pairing failure because of IPC write failure (CYW20829B0-56).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02][Bluetooth_LE_ISOC][2 Peripherals] After few hours, ISOC Connection got lost (BTSDK-10773).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02] LE_LR Central app has couple of compilation warnings when enabled USE_OLED_DISP?=1 flag (BTSDK-10372).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02][LE-ISOC-Central][LE-ISOC-Peripheral][2-Peripherals] When one of the peripheral is disconnected, ISOC Channel between Central and other Peripheral also got down (BTSDK-10350).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
[CYW920829M2EVK-02][LE-ISOC-Central][LE-ISOC-Peripheral][2-Peripherals][2/5] ISOC Connection is not stable when Central is connected with 2 Peripherals (BTSDK-10341).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
20829: WDT accuracy degrades at longer delays (BSP-4892).	This issue is targeted to be addressed in a future Bluetooth® SDK release.
There can be race condition where the bluetooth stack enable can invoke app_kv_store_init in a state where a context switch may occur and corrupt the flash initialization (BTSDK-10684).	Workaround and best practice guidance is for applications to call app_kv_store_init before wiced_bt_stack_init.

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## Further reading

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## Further reading

See ModusToolbox™ software documents (including but not limited to the following):

- ModusToolbox™ software installation guide
- Bluetooth® API documentation
- Eclipse IDE for ModusToolbox™ software quick start guide
- Eclipse IDE for ModusToolbox™ software user guide
- ModusToolbox™ software configurator guides (for each configurator)

Other documentation includes (but is not limited to):

- Device datasheets
- Application notes
- Training

**Contact** your sales representative as needed.

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