

# ModusToolbox™ AnyCloud

## release notes

### Version

1.5

## About this document

### Scope and purpose

This document describes the libraries and versions included with ModusToolbox™ AnyCloud version 1.5. For details about these and other features and libraries, refer to the [ModusToolbox™ AnyCloud user guide](#).

### Document conventions

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

### Reference documents

Refer to the following links for more information about AnyCloud:

- [Code Examples on GitHub](#)
- [AnyCloud Community Webpage](#)
- [ModusToolbox™ AnyCloud user guide](#)



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### Overview

## 1 Overview

With the ModusToolbox™ AnyCloud collection of software libraries, you can rapidly develop Wi-Fi and Bluetooth applications on PSoC™ 6 MCU devices. AnyCloud is based on the industry-standard lwIP TCP/IP stack and Mbed TLS network security. It provides the ideal solution for applications that do not use commercial cloud management systems such as Arm Pelion or Amazon AWS IoT Core. AnyCloud enables development with custom or alternative third-party cloud management approaches with a fully open, customizable, and extensible source code distribution.

## 2 What's New/Changed in Version 1.5

The following features and libraries have been added/changed since the previous release of AnyCloud:

- Upgraded HAL to v2.0.0 with several enhancements.
- Updated PDL to version 2.3.0, with support for system configuration from secure CM0+ core using PRA API.
- Updated FreeRTOS to version 10.4.3.
- Added support for CYW4373 Laird module along with code examples ([https://github.com/Infineon/TARGET\\_CY8CEVAL-062S2-LAI-4373M2](https://github.com/Infineon/TARGET_CY8CEVAL-062S2-LAI-4373M2)).
- Added support for CYW43439 WHD and BTSTACK using SDIO and UART as the default transports, respectively.
- Enabled 11AC pre\_Cert in Wifi\_Cert\_tester (SigmaDUT) certification tool.
- Added support for Azure IoT SDK with TF-M integration.
- Updated code examples to support additional devices.

## 3 Known Issues/Limitations

This section lists the known issues/limitations of this release:

### 3.1 GCC newlib Memory Leaks

Problem	Workaround
<p><b>[ModusToolbox™ 2.1 ONLY]</b> The implementation of newlib from GCC will leak ~1.4 kb of Heap memory per task/thread that uses stdio functions (such as, printf, snprintf, etc.).</p>	<p>Does not apply when you are using ModusToolbox™ 2.2 or later.</p> <p>By default, no AnyCloud libraries suffer this issue unless they report an error. If you turn on information or warning messages in our libraries, then you can be exposed to this issue. This is only recommended for debugging purposes.</p> <p>For your own libraries, avoid using stdio functions in your tasks/threads. Especially avoid this when you have a design for a task type that is continually created and destroyed.</p>

**Revision history**

<b>Revision</b>	<b>Date</b>	<b>Description</b>
**	04/30/2020	Initial Release.
*A	05/18/2020	Added BTSTACK issue. Added bluetooth-freertos btstack libraries.
*B	06/29/2020	Updated for AnyCloud 1.1.
*C	08/30/2020	Removed sentence about BTSTACK supports Bluetooth BR/EDR and BLE core protocols.
*D	09/30/2020	Updated for AnyCloud 1.2.
*E	12/20/2020	Updated for AnyCloud 1.3.
*F	05/11/2021	Updated for AnyCloud 1.4.
*G	05/24/2021	Updated for AnyCloud 1.4.1.
*H	10/06/2021	Updated for AnyCloud 1.5.

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**Document reference**

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