



Bluetooth® Mesh ADK 8.0.1.0

February 5, 2025

Bluetooth mesh is a new topology available for Bluetooth Low Energy (LE) devices that enables many-to-many (m:m) communication. It is optimized for creating large-scale device networks, and is ideally suited for building automation, sensor networks, and asset tracking. Our software and SDK for Bluetooth development support Bluetooth mesh and Bluetooth 5 functionality. Developers can add mesh networking communication to LE devices such as connected lights, home automation, and asset tracking systems. The software also supports Bluetooth beaconing, beacon scanning, and GATT connections, so Bluetooth mesh can connect to smart phones, tablets, and other Bluetooth LE devices.

These release notes cover ADK version(s):

8.0.1.0 released on February 5, 2025 (underlying Bluetooth changes only)

8.0.0.0 released on December 16, 2024



KEY FEATURES

- Added a helper class to the vendor model in ADK.
- Updated the ADK to incorporate underlying Bluetooth changes.

Compatibility and Use Notices

- This release is to be used with Bluetooth Mesh SDK 8.0.1.0.
- The iOS ADK supports the last three major releases of the iOS system (iOS 15, iOS 16 and iOS 17).
- The Android ADK supports the last three major releases of the Android system (Android 13, Android 13 and Android 14).

Contents

- 1 Android 3
 - 1.1 New Items..... 3
 - 1.2 Improvements..... 3
 - 1.3 Fixed Issues 3
 - 1.4 Known Issues in the Current Release 3
 - 1.5 Deprecated Items 3
 - 1.6 Removed Items 3
- 2 iOS 4
 - 2.1 New Items..... 4
 - 2.2 Improvements..... 4
 - 2.3 Fixed Issues 4
 - 2.4 Known Issues in the Current Release 4
 - 2.5 Deprecated Items 4
 - 2.6 Removed Items 4
- 3 Using This Release 5
 - 3.1 Installation and Use..... 5
 - 3.2 Support..... 5

1 Android

1.1 New Items

Added in release 8.0.0.0

None.

1.2 Improvements

Changed in release 8.0.0.0

None.

1.3 Fixed Issues

Fixed in release 8.0.0.0

ID #	Description
1307434	Enhanced the stability and maturity of the IOP tests for BT Mesh using the BT Mesh mobile app.
1322293	Added a new helper class for the vendor model.
1339169	Mesh objects under the node will disappear when the node is restarted.
852100	In case CBP certification validation fails, the application now goes back to scanning/device list view.

1.4 Known Issues in the Current Release

ID #	Description	Workaround
1322293	Sequence number storage does not cope with write interval of '1.'	Do not use '1' as sequence number write interval. Instead of '1' you can use '2.'

1.5 Deprecated Items

None.

1.6 Removed Items

Removed in release 8.0.0.0

None.

2 iOS

2.1 New Items

Added in release 8.0.0.0

None.

2.2 Improvements

None.

2.3 Fixed Issues

Fixed in release 8.0.0.0

ID #	Description
1307434	Enhanced the stability and maturity of the IOP tests for BT Mesh using the BT Mesh mobile app.
1322293	Added a new helper class for the vendor model.
1339169	Mesh objects under the node will disappear when the node is restarted.
852100	<u>In case CBP certification validation fails, the application now goes back to scanning/device list view</u>

2.4 Known Issues in the Current Release

ID #	Description	Workaround
1322293	Sequence number storage does not cope with write interval of '1.'	Do not use '1' as sequence number write interval. Instead of '1' you can use '2.'

2.5 Deprecated Items

None.

2.6 Removed Items

None.

3 Using This Release

3.1 Installation and Use

See [AN1200.1: iOS and Android ADK for Bluetooth® Mesh SDK 2.x and Higher](#) for information about required tools and compatible platforms.

3.2 Support

Development Kit customers are eligible for training and technical support. Use the [Silicon Labs Bluetooth LE web page](#) to obtain information about all Silicon Labs Bluetooth products and services, and to sign up for product support. Contact Silicon Laboratories support at <http://www.silabs.com/support>.

Simplicity Studio

One-click access to MCU and wireless tools, documentation, software, source code libraries & more. Available for Windows, Mac and Linux!



IoT Portfolio
www.silabs.com/IoT



SW/HW
www.silabs.com/simplicity



Quality
www.silabs.com/quality



Support & Community
www.silabs.com/community

Disclaimer

Silicon Labs intends to provide customers with the latest, accurate, and in-depth documentation of all peripherals and modules available for system and software implementers using or intending to use the Silicon Labs products. Characterization data, available modules and peripherals, memory sizes and memory addresses refer to each specific device, and "Typical" parameters provided can and do vary in different applications. Application examples described herein are for illustrative purposes only. Silicon Labs reserves the right to make changes without further notice to the product information, specifications, and descriptions herein, and does not give warranties as to the accuracy or completeness of the included information. Without prior notification, Silicon Labs may update product firmware during the manufacturing process for security or reliability reasons. Such changes will not alter the specifications or the performance of the product. Silicon Labs shall have no liability for the consequences of use of the information supplied in this document. This document does not imply or expressly grant any license to design or fabricate any integrated circuits. The products are not designed or authorized to be used within any FDA Class III devices, applications for which FDA premarket approval is required or Life Support Systems without the specific written consent of Silicon Labs. A "Life Support System" is any product or system intended to support or sustain life and/or health, which, if it fails, can be reasonably expected to result in significant personal injury or death. Silicon Labs products are not designed or authorized for military applications. Silicon Labs products shall under no circumstances be used in weapons of mass destruction including (but not limited to) nuclear, biological or chemical weapons, or missiles capable of delivering such weapons. Silicon Labs disclaims all express and implied warranties and shall not be responsible or liable for any injuries or damages related to use of a Silicon Labs product in such unauthorized applications.

Trademark Information

Silicon Laboratories Inc.[®], Silicon Laboratories[®], Silicon Labs[®], SiLabs[®] and the Silicon Labs logo[®], Bluegiga[®], Bluegiga Logo[®], EFM[®], EFM32[®], EFR, Ember[®], Energy Micro, Energy Micro logo and combinations thereof, "the world's most energy friendly microcontrollers", Redpine Signals[®], WiSeConnect, n-Link, EZLink[®], EZRadio[®], EZRadioPRO[®], Gecko[®], Gecko OS, Gecko OS Studio, Precision32[®], Simplicity Studio[®], Telegesis, the Telegesis Logo[®], USBXpress[®], Zentri, the Zentri logo and Zentri DMS, Z-Wave[®], and others are trademarks or registered trademarks of Silicon Labs. ARM, CORTEX, Cortex-M3 and THUMB are trademarks or registered trademarks of ARM Holdings. Keil is a registered trademark of ARM Limited. Wi-Fi is a registered trademark of the Wi-Fi Alliance. All other products or brand names mentioned herein are trademarks of their respective holders.



Silicon Laboratories Inc.
400 West Cesar Chavez
Austin, TX 78701
USA

www.silabs.com