Bluetooth® Mesh ADK 7.0.2.0

September 18, 2024

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):

7.0.2.0 released on September 18, 2024 (underlying Bluetooth changes only)
7.0.1.0 released on July 24, 2024 (underlying Bluetooth changes only)
7.0.0.0 released on June 5, 2024

Bluetooth

KEY FEATURES

- Export and Import API are added in ADK for mesh configuration database

Compatibility and Use Notices

- This release is to be used with Bluetooth Mesh SDK 7.0.2.0.
- 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 12, Android 13 and Android 14).

Contents

1 Android

1.1 New Items

Added in release 7.0.0.0

- Added support for import and export related APIs for the BT Mesh configuration database to the ADK.

1.2 Improvements

Changed in release 7.0.2.0

- The mobile application is now a tool for evaluating the standard Silabs examples and demos. For embedded development, the NCP Commander can be used.

1.3 Fixed Issues

Fixed in release 7.0.2.0

ID #	Description
1339857	Provisioning fails due to unsupported device error. This has been fixed.

Fixed in release 7.0.0.0

ID #	Description
845959	The distribution server did not start while updating the FW on device. This has been fixed.

1.4 Known Issues in the Current Release

Issues in bold were added since the previous 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

None.

2 iOS

2.1 New Items

Added in release 7.0.0.0

- Added support for import and export related APIs for BT Mesh configuration database to the ADK.

2.2 Improvements

Changed in release 7.0.2.0

- The mobile application is now a tool for evaluating the standard Silabs examples and demos. For embedded development, the NCP Commander can be used.

2.3 Fixed Issues

Fixed in release 7.0.2.0

ID #	Description
1339857	Provisioning fails due to unsupported device error. This has been fixed.
1339169	Mesh objects under the node will disappear when the node is restarted. This issue has been fixed

Fixed in release 7.0.0.0

ID #	Description
845959	The distribution server did not start while updating the FW on Device. This has been fixed.

2.4 Known Issues in the Current Release

Issues in bold were added since the previous 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.

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