



SILICON LABS 6.1.3.0 GA Bluetooth Mesh Software Development User Guide

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SILICON LABS 6.1.3.0 GA Bluetooth Mesh Software Development



Specifications

- Product Name: Gecko SDK Suite 4.4
- Release Date: October 23, 2024
- Bluetooth Mesh Specification Version: 1.1
- Supported SDK Versions:
 - 6.1.3.0 released October 23, 2024
 - 6.1.2.0 released August 14, 2024
 - 6.1.1.0 released May 2, 2024
 - 6.1.0.0 released April 10, 2024
 - 6.0.1.0 released February 14, 2024
 - 6.0.0.0 released December 13, 2023

Product Usage Instructions

Compatibility and Use Notices

For security updates and notices, refer to the Security chapter of the Gecko Platform Release notes or visit the Silicon Labs Release Notes page. Subscribe to Security Advisories for the latest information.

Using This Release

If you are new to the Silicon Labs Bluetooth mesh SDK, follow the instructions provided in the user manual to get started with the product.

Compatible Compilers

Ensure that you are using the correct files and compilers as recommended for optimal performance of the product.

FAQ

- **Q: Where can I find more information about security updates?**

A: You can refer to the Security chapter of the Gecko Platform Release notes or visit the Silicon Labs Release Notes page for detailed security update information. |

- **Q: How do I subscribe to Security Advisories for this product?**

A: To subscribe to Security Advisories and receive up-to-date information, follow the instructions provided in the user manual or contact Silicon Labs support.

- **Q: What compilers are compatible with this product?**

A: Refer to the user manual for a list of compatible compilers recommended for use with this product.

Bluetooth® mesh SDK 6.1.3.0 GA

Gecko SDK Suite 4.4 October 23, 2024

Bluetooth mesh is a new topology available for Bluetooth Low Energy (LE) devices that enables many-to-many (m:m) communication. It's optimized for creating large-scale de-vice networks, and is ideally suited for building automation, sensor networks, and asset tracking. Our software and SDK for Bluetooth development supports Bluetooth Mesh and Bluetooth 5.3 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. This release includes features supported by the Bluetooth mesh specification version 1.1.

KEY FEATURES

- Qualified implementation of Mesh 1.1
- Added Network Lighting Control (NLC) profiles



These release notes cover SDK versions:

- 6.1.3.0 released October 23, 2024
- 6.1.2.0 released August 14, 2024
- 6.1.1.0 released May 2, 2024
- 6.1.0.0 released April 10, 2024
- 6.0.1.0 released February 14, 2024
- 6.0.0.0 released December 13, 2023

Compatibility and Use Notices

For more information about security updates and notices, see the Security chapter of the Gecko Platform Release notes installed with this SDK or on the Silicon Labs Release Notes page. Silicon Labs also strongly recommends that you subscribe to Security Advisories for up-to-date information. For instructions, or if you are new to the Silicon Labs Bluetooth mesh SDK, see Using This Release.

Compatible Compilers:

IAR Embedded Workbench for ARM (IAR-EWARM) version 9.40.1

- Using wine to build with the IarBuild.exe command line utility or IAR Embedded Workbench GUI on macOS or Linux could result in incorrect files being used due to collisions in wine's hashing algorithm for generating short file names.
- Customers on macOS or Linux are advised not to build with IAR outside of Simplicity Studio. Customers who do should carefully verify that the correct files are being used. GCC (The GNU Compiler Collection) version 12.2.1, provided with Simplicity Studio.
- Link-time optimization feature of GCC has been disabled, resulting in a slight increase of image size.

New Items

New Features

Added in release 6.0.1.0

Changes in SLC components:

- A third BT Mesh Role was added beside Provisioner and Provisionee role – a Custom BT Mesh Role, where the application gets the freedom to implement a custom role. For example, the Provisioner or
- Provisionee role could be selected runtime.
- Added in release 6.0.0.0
- New Networked Lighting Control (NLC) example apps:
- `btmesh_soc_nlc_basic_lightness_controller` for demonstration of the BT Mesh NLC Basic Lightness Controller Profile
- `btmesh_soc_nlc_basic_scene_selector` for demonstration of the BT Mesh NLC Basic Scene Selector Profile
- `btmesh_soc_nlc_dimming_control` for demonstration of the BT Mesh NLC Dimming Controller Profile
- `btmesh_soc_nlc_sensor_ambient_light` for demonstration of the BT Mesh NLC Ambient Light Sensor Profile
- `btmesh_soc_nlc_sensor_occupancy` for demonstration of the BT Mesh NLC Occupancy Sensor Profile (People count)

Changes in example apps:

`btmesh_soc_sensor_server` was deleted and its functionality was split in 3 examples:

- `btmesh_soc_sensor_thermometer` for demonstration of Sensor Server Model with a thermometer
- `btmesh_soc_nlc_sensor_occupancy` for demonstration of the BT Mesh NLC Occupancy Sensor Profile (people count)
- `btmesh_soc_nlc_sensor_ambient_light` for demonstration of the BT Mesh NLC Ambient Light Sensor Profile
- `btmesh_soc_switch` was renamed to `btmesh_soc_switch_ctl`, whose purpose is to demonstrate the usage of the Light CTL Client Model. The example no longer controls scenes (Scene Client)
- `btmesh_soc_light` was renamed to `btmesh_soc_light_ctl`
- The example no longer demonstrates the LC Server model and Scene Server, Scheduler Server and Time Server Models
- `btmesh_soc_hsl` was renamed to `btmesh_soc_light_hsl`
- The example no longer demonstrates the LC Server model and Scene Server, Scheduler Server and Time Server Models

Changes in all example apps:

- DFU image updates are generated by a Python script instead of `create_bl_files.bat/.sh` files
- Support for Mesh Composition Data Pages 1, 2, 128, 129, 130 was added for all examples, these pages are automatically generated by the BT Mesh Configurator tool.

New SLC components:

- `btmesh_nlc_basic_lightness_controller` for demonstration of the BT Mesh NLC Basic Lightness Controller

Profile

- `btmesh_nlc_basic_lightness_controller_profile_metadata` for Composition Data Page 2 NLC support for Basic Lightness Controller Profile
- `btmesh_nlc_basic_scene_selector` for demonstration of the BT Mesh NLC Basic Scene Selector Profile
- `btmesh_nlc_basic_scene_selector_profile_metadata` for Composition Data Page 2 NLC support for Basic Scene Selector Profile
- `btmesh_nlc_dimming_control` for demonstration of the BT Mesh NLC Dimming Controller Profile
- `btmesh_nlc_dimming_control_profile_metadata` for Composition Data Page 2 NLC support for Dimming Controller Profile
- `btmesh_nlc_ambient_light_sensor` for demonstration of the BT Mesh NLC Ambient Light Sensor Profile
- `btmesh_nlc_ambient_light_sensor_profile_metadata` for Composition Data Page 2 NLC support for Ambient Light Sensor Profile
- `btmesh_nlc_occupancy_sensor` for demonstration of the BT Mesh NLC Occupancy Sensor Profile (People count)
- `btmesh_nlc_occupancy_sensor_profile_metadata` for Composition Data Page 2 NLC support for Occupancy Sensor Profile
- `btmesh_generic_level_client_ext` for extending the Generic Base component with Generic Move Unacknowledged and Generic Delta Unacknowledged messages
- `ncp_btmesh_ae_server` for enabling the Silabs Configuration Server vendor model for the node to allow data transfer over Advertisement Extension
- `ncp_btmesh_ae_client` for enabling the Silabs Configuration Client vendor model for the node.
- `ncp_btmesh_user_cmd` for demonstrating the communication between an NCP host and NCP target using BGAPI user messages, responses and events.

New APIs

Added in release 6.1.0.0

BGAPI additions:

New commands have been added to the node class to associate scan response data with Mesh provisioning and Mesh proxy service advertisements. The scan response data associated with Mesh proxy service advertisements can be set individually for each network key, so it can contain data encrypted with that key, but it is up to the application to manage that. The new commands are:

- `sl_btmesh_node_set_proxy_service_scan_response`: Set scan response data for proxy service advertisement
- `sl_btmesh_node_clear_proxy_service_scan_response`: Clear scan response data for proxy service advertisement
- `sl_btmesh_node_set_provisioning_service_scan_response`: Set scan response data for provisioning service advertisement
- `sl_btmesh_node_clear_provisioning_service_scan_response`: Clear scan response data for provisioning service advertisement

A new command has been added to the vendor model class to set model behavior options. Currently there is one option that controls whether a work buffer is allocated from the heap for each vendor model for message reception reporting. The default value (1) allocates a buffer, which increases event reporting resilience when a device is under high load at the expense of additional heap memory usage. The new command is:

- `sl_btmesh_vendor_model_set_option`: Set a vendor model behavior option

New commands have been added to the diagnostic class to report friendship-related events. The new commands are:

- `sl_btmesh_diagnostic_enable_friend`: Enable generation of friendship-related diagnostic events
- `sl_btmesh_diagnostic_disable_friend`: Disable generation of friendship-related diagnostic events
- `sl_btmesh_diagnostic_get_friend`: Retrieve friendship-related diagnostic counters

New events added to the diagnostic class are as follows:

- `sl_btmesh_diagnostic_friend_queue`: Event for message being added to friendship message queue
- `sl_btmesh_diagnostic_friend_relay`: Event for message being relayed to a LPN
- `sl_btmesh_diagnostic_friend_remove`: Event for message being removed from friendship message queue

Added in release 6.0.0.0

Changes in SLC components:

- `ncp_btmesh_dfu` component's `ncp_btmesh_dfu.h` has a new API
 - `void sl_btmesh_ncp_dfu_handle_cmd(void *data, bool *cmd_handled);`
- `btmesh_provisioning_decorator` component doesn't restart provisioning after provisioning is failed
- `btmesh_lighting_server`'s `sl_btmesh_lighting_server.h` has a new API
 - `void sl_btmesh_update_lightness(uint16_t lightness, uint32_t remaining_ms);`
- `btmesh_event_log` has more granular configurability options
- `btmesh_ctl_client`'s `sl_btmesh_ctl_client.h` has an API change instead of
 - `void sl_btmesh_set_temperature(uint8_t new_color_temperature_percentage);` the new API is
 - `void sl_btmesh_ctl_client_set_temperature(uint8_t temperature_percent); void sl_btmesh_ctl_client_set_lightness(uint8_t lightness_percent);`

BGAPI additions:

A new BGAPI class for device diagnostics has been added. It provides the application with Mesh stack statistics counters and an event-based reporting of network PDU relaying and proxying, which can be activated and deactivated as needed.

The BGAPI commands in the diagnostic class are:

- `sl_btmesh_diagnostic_init`: Initialize the diagnostic component
- `sl_btmesh_diagnostic_deinit`: Deinitialize the diagnostic component
- `sl_btmesh_diagnostic_enable_relay`: Enable event-based reporting of network PDU relaying/proxying activity
- `sl_btmesh_diagnostic_disable_relay`: Disable event-based reporting of network PDU relaying/proxying activity
- `sl_btmesh_diagnostic_get_relay`: Get the number of relayed/proxied network PDUs so far
- `sl_btmesh_diagnostic_get_statistics`: Get mesh stack statistics counters
- `sl_btmesh_diagnostic_clear_statistics`: Zero mesh stack statistics counters

The BGAPI event in the diagnostic class is:

- `sl_btmesh_diagnostic_relay`: Event reporting that a network PDU has been relayed or proxied by the stack

Improvements

Changed in release 6.1.0.0

The diagnostic class BGAPI command for retrieving statistics has been changed to retrieve chunks of data instead of retrieving all data at once. The caller should supply the size of the chunk it requests along with the offset of the chunk in the statistics data, and the call will return with as much data as can be supplied, given the request constraints.

Changed in release 6.0.0.0

- A provisioner or a node can now configure itself using the configuration client model and its own primary address as the destination for the messages. This can replace self-configuration by test BGAPI commands.
- Code optimization can result in slightly smaller firmware images than before, depending on the feature set used.
- Code optimization can result in slightly smaller RAM usage than before, depending on the feature set used.
- The Mesh stack no longer requires or supports the deprecated BLE advertiser and scanner components. Instead, it uses the current versions of each (legacy advertiser and legacy scanner for non-extended advertisements, and extended advertiser and extended scanner for extended advertisements). Applications that use both the BLE and the Mesh BGAPIs should no longer use the deprecated BLE advertiser and scanner components either.

Fixed Issues

Fixed in release 6.1.3.0

ID #	Description
1331888, 1338088, 1338090	Fixed a number of unhandled memory allocation failures that could potentially lead to a crash when the device is overloaded with traffic.
1345827	Fixed loss of the informative DFU distributor BGAPI event for node removal.
1351464	Fixed link layer reporting of closing connections in an overload situation.
1354679	Optimized memory usage when sending legacy advertisements.
1356050	Fixed GATT proxy restarting issue when the underlying connection closes unexpectedly.

Fixed in release 6.1.2.0

ID #	Description
1251498	Fixed when a Lighting message, including transition time, leads to an incorrect error message in logs.
1284204	Fixed an issue that could prevent saving the replay protection list when using sl_btmesh_node_power_off command.
1325267	Fixed element sequence number writing when the configured write interval exponent is set to zero.
1334927	Fixed an issue that could cause a hard fault when GATT proxy server receives data during resource starvation.

Fixed in release 6.1.0.0

ID #	Description
1235337	Made GATT service discovery more robust on an overloaded device.
1247422	Made vendor model reception more robust on an overloaded device.
1252252	Fixed when a Generic Move message leads to a dim up, which could overflow to a dim down.
1254356	Fixed a regression with friend subsystem deinitialization.
1276121	Fixed application key index truncation at BGAPI level when embedded provisioner invokes a key refresh procedure.

Fixed in release 6.0.1.0

ID #	Description
1226000	Extended Provisioner BGAPI function for checking node identity to also check private node identity.
1206620	Fixed problems caused by missing BGAPI events during high load to correct firmware verification problems.
1230833	Fixed friend subsystem deinitialization so that reinitialization works without resetting the device.
1243565	Fixed crash that could occur if provisioner initialization failed, for example because of malformed DCD.
1244298	Fixed reporting of spurious extra octets in the Register Status event of the Scene Client model.
1243556	Automatic node initialization removed for BT Mesh application components. Now all components can be used also in Provisioner role.

Fixed in release 6.0.0.0

ID #	Description
360955	The interval between first and second attention timer event could be other than one second.
1198887	Private beacon random advertiser address is the same for all subnets while it should be different.
1202073	Btmesh_ncp_empty example does not have enough RAM on BRD4182 with GCC compiler.
1202088	Btmesh_soc_switch example does not have enough RAM on BRD4311 and BRD4312 with IAR compiler
1206714	Proxy server should emit a beacon over proxy connection when a subnet is added to the proxy server

ID #	Description
1206715, 1211012, 1211022	Support for device composition data page 2, 129 and 130 should be present in configuration server model as well as large composition data server model when remote provisioning is supported
1211017	Periodic publishing of location information should alternate between global and local location when both are known
1212373	Resource leak in proxy connection handling after several hundred proxy connections have been opened and closed
1212854	Pull mode MBT transfer to an LPN does not complete successfully
1197398, 1194443	DFU distributor application is currently not able to handle more than 60 nodes successfully
1202088	Btmesh_soc_switch_ctl example compiles on all boards with IAR compiler.

Known Issues in the Current Release

Issues in bold were added since the previous release.

ID #	Description	Workaround
401550	No BGAPI event for segmented message handling failure.	Application needs to deduce failure from timeout / lack of application layer response; for vendor models an API has been provided.
454059	A large number of key refresh state change events are generated at the end of KR process, and that may flood NCP queue.	Increase NCP queue length in the project.
454061	Slight performance degradation compared to 1.5 in round-trip latency tests was observed.	
624514	Issue with re-establishing connectable advertising if all connections have been active and GATT proxy is in use.	Allocate one more connection than is needed.
841360	Poor performance of segmented message transmission over GATT bearer.	Ensure that the underlying BLE connection's Connection interval is short; ensure that ATT MTU is large enough to fit a full Mesh PDU; tune the minimum connection event length to allow multiple LL packets to be transmitted per connection event.
1121605	Rounding errors may cause scheduled events to trigger at very slightly different times than expected.	
1226127	Host provisioner example can be stuck when it starts to provision a second node.	Restart the host provisioner app before provisioning the second node.
1204017	Distributor is not able to handle parallel self FW Update and FW Upload.	Don't run self FW update and FW upload in parallel.
1338936	GATT proxy might not resume service advertisement after disconnection in an overload situation.	Ensure that enough buffers are reserved for traffic handling. Plan the network and communication patterns so that no node is overwhelmed with traffic.
1344809	Proxying to advertisement bearer stalls in an overload situation with higher than usual delays in forwarding data.	Ensure that enough buffers are reserved for traffic handling. Plan the network and communication patterns so that no node is overwhelmed with traffic.

Deprecated Items

Deprecated in release 6.0.0.0

The BGAPI command `sl_btmesh_node_get_networks()` has been deprecated. Use `sl_btmesh_node_key_count()` and `sl_btmesh_node_get_key()` instead.

The BGAPI commands `sl_btmesh_test_set_segment_send_delay()` and `sl_btmesh_test_set_sar_config()` have been deprecated. Use `sl_btmesh_sar_config_set_sar_transmitter()` and `sl_btmesh_sar_config_server_set_sar_receiver()` instead.

Removed Items

Removed in release 6.0.0.0

The BGAPI commands `sl_btmesh_test_set_local_config()` and `sl_btmesh_test_get_local_config()` have been

removed. The BGAPI commands `sl_btmesh_node_get_statistics()` and `sl_btmesh_node_clear_statistics()` have been removed.

Using This Release

This release contains the following

- Silicon Labs Bluetooth mesh stack library
- Bluetooth mesh sample applications

If you are a first time user, see QSG176: Silicon Labs Bluetooth Mesh SDK v2.x Quick-Start Guide.

Installation and Use

The Bluetooth mesh SDK is provided as part of the Gecko SDK (GSDK), the suite of Silicon Labs SDKs. To quickly get started with the GSDK, install Simplicity Studio 5, which will set up your development environment and walk you through GSDK installation. Simplicity Studio 5 includes everything needed for IoT product development with Silicon Labs devices, including a resource and project launcher, software configuration tools, full IDE with GNU toolchain, and analysis tools. Installation instructions are provided in the online Simplicity Studio 5 User's Guide. Alternatively, Gecko SDK may be installed manually by downloading or cloning the latest from GitHub. See https://github.com/SiliconLabs/gecko_sdk for more information.

The GSDK default install location has changed with Simplicity Studio 5.3 and higher.

- Windows: C:\Users\<NAME>\SimplicityStudio\SDKs\gecko_sdk
- MacOS: /Users/<NAME>/SimplicityStudio/SDKs/gecko_sdk

Documentation specific to the SDK version is installed with the SDK. Additional information can often be found in the knowledge base articles (KBAs). API references and other information about this and earlier releases is available on <https://docs.silabs.com/>.

Security Information

Secure Vault Integration

This version of the stack is integrated with Secure Vault Key Management. When deployed to Secure Vault High devices, mesh encryption keys are protected using the Secure Vault Key Management functionality. The table below shows the protected keys and their storage protection characteristics.

Key	Exportability on a node	Exportability on Provisioner	Notes
Network key	Exportable	Exportable	Derivations of the network key exist only in RAM while network keys are stored on flash
Application key	Non-exportable	Exportable	
Device key	Non-exportable	Exportable	In Provisioner's case, applied to Provisioner's own device key as well as other devices' keys

Keys that are marked as "Non-Exportable" can be used but cannot be viewed or shared at runtime. Keys that are marked as "Exportable" can be used or shared at runtime but remain encrypted while stored in flash. For more information on Secure Vault Key Management functionality, see AN1271: Secure Key Storage.

Security Advisories

To subscribe to Security Advisories, log in to the Silicon Labs customer portal, then select Account Home. Click HOME to go to the portal home page and then click the Manage Notifications tile. Make sure that 'Software/Security Advisory Notices & Product Change Notices (PCNs)' is checked, and that you are subscribed at minimum for your platform and protocol. Click Save to save any changes. The following figure is an example:

The screenshot shows the 'Update Preference' page in the Silicon Labs customer portal. The page has a header with the Silicon Labs logo, a search bar, and a user profile icon labeled 'CATHERIN...'. Below the header is a navigation bar with 'HOME', 'CASES', and 'SOFTWARE RELEASES'. The main content area is titled 'Update Preference' and contains two sections: 'WHAT EMAILS WOULD YOU LIKE TO RECEIVE?' and 'SELECT THE PRODUCTS TO RECEIVE UPDATES FOR'.

WHAT EMAILS WOULD YOU LIKE TO RECEIVE?

- Newsletters:**
 - ☐ Community Monthly Newsletter
 - ☐ Sales Newsletter
 - ☐ Micrium Newsletter
- Product Specific Notifications:**
 - ☐ Product Information and Newsletter
 - ☒ Software/Security Advisory Notices & Product Change Notices (PCNs)
 - ☐ Technical Documents Updates (datasheet Notes, Data Sheets, etc.)

SELECT THE PRODUCTS TO RECEIVE UPDATES FOR

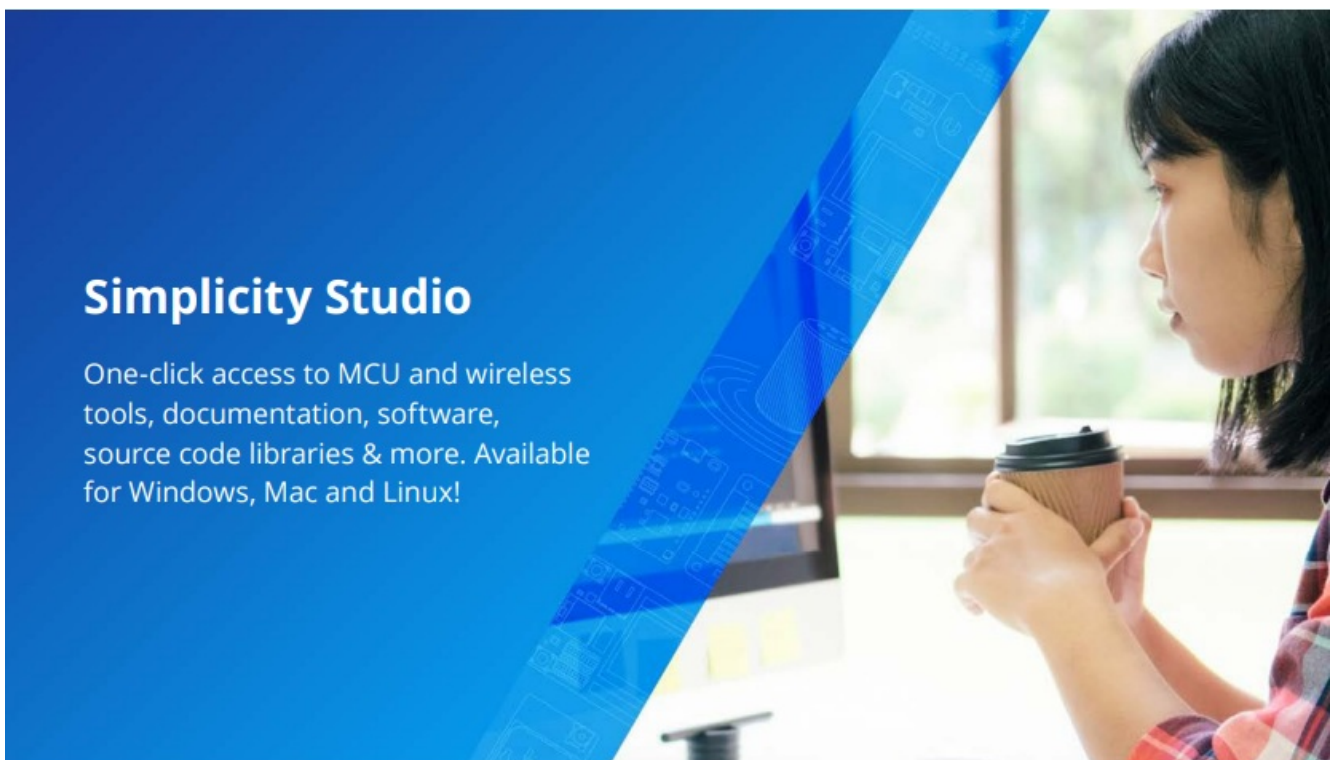
<input type="checkbox"/> Select/Unselect All	<input type="checkbox"/> Power over Ethernet
<input type="checkbox"/> Audio and Radio	<input type="checkbox"/> Sensors
<input type="checkbox"/> Interface	<input type="checkbox"/> TV and Video
<input type="checkbox"/> Isolation	<input type="checkbox"/> Voice
<input type="checkbox"/> Modems and DAAs	<input type="checkbox"/> Wireless
<input type="checkbox"/> Microcontrollers <ul style="list-style-type: none"><input type="checkbox"/> 8-bit MCUs<input checked="" type="checkbox"/> 32-bit MCUs	<input type="checkbox"/> Bluetooth Classic
<input type="checkbox"/> Timing	<input type="checkbox"/> Bluetooth Low Energy
<input type="checkbox"/> Clocks	<input checked="" type="checkbox"/> Proprietary
<input type="checkbox"/> Buffers	<input type="checkbox"/> Wi-Fi
<input type="checkbox"/> Oscillators	<input type="checkbox"/> ZigBee and Thread
<input type="checkbox"/> CDR and PHY	<input type="checkbox"/> Z-Wave

Support

Development Kit customers are eligible for training and technical support. Use the Silicon Labs Bluetooth mesh 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/loT

- SW/HW www.silabs.com/simplicity
- Quality www.silabs.com/quality
- Support & Community www.silabs.com/community

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Documents / Resources

	<p>SILICON LABS 6.1.3.0 GA Bluetooth Mesh Software Development [pdf] User Guide 6.1.3.0 GA Bluetooth Mesh Software Development, 6.1.3.0 GA, Bluetooth Mesh Software Development, Mesh Software Development, Software Development, Development</p>
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References

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-  [Simplicity Studio - Silicon Labs](#)
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