

# **Bluetooth®** Real-Time Locating Library 7.1.0.0 GA Gecko SDK Suite 4.4 April 10, 2024

Silicon Labs is a leading vendor in Bluetooth hardware and software technologies, used in products such as sports and fitness, consumer electronics, beacons, and smart home applications.

The Real-Time Locating (RTL) library contains features for Angle of Arrival estimation and spatial positioning. The software library comes with a C-programming language API for Windows (x86\_64) and Linux (ARM Cortex A, x86\_64) hosts.

Bluetooth

#### **KEY FEATURES**

• Underlying code changes only

The RTL Library is released with the Bluetooth SDK. These release notes cover the following version(s):

Real-Time Locating Library 7.1.0.0 in Bluetooth SDK 7.1.0.0 released on April 10, 2024 (underlying code changes only). Real-Time Locating Library 7.0.1.0 in Bluetooth SDK 7.0.1.0 released on February 14, 2024 (underlying code changes only). Real-Time Locating Library 7.0.0.0 in Bluetooth SDK 7.0.0.0 released on December 13, 2023.

## **Contents**

1	New Items	3
	1.1 New Features	3
2	Improvements	4
3	Fixed Issues	5
4	Known Issues in the Current Release	6
5	Deprecated Items	7
6	Removed Items	8
7	Using This Release	9
	7.1 Installation and Use	9
	7.2 Support	9

### 1 New Items

This release of the Gecko SDK (GSDK) will be the last with combined support for all EFM and EFR devices, except for patches to this version as needed. Starting in mid-2024 we will introduce separate SDKs:

- The existing Gecko SDK will continue with support for Series 0 and 1 devices.
- A new SDK will cater specifically to Series 2 and 3 devices.

The Gecko SDK will continue to support all Series 0 and 1 devices with no change to the long-term support, maintenance, quality, and responsiveness provided under our software policy.

The new SDK will branch from Gecko SDK and begin to offer new features that help developers take advantage of the advanced capabilities of our Series 2 and 3 products.

This decision aligns with customer feedback, reflecting our commitment to elevate quality, ensure stability, and enhance performance for an exceptional user experience across our software SDKs.

## 1.1 New Features

#### Added in release 7.1.0.0

# 2 Improvements

Changed in release 7.1.0.0

# 3 Fixed Issues

Fixed in release 7.1.0.0

## 4 Known Issues in the Current Release

Issues in bold were added since the previous release.

ID#	Description	Workaround
375152	In heavy multipath conditions, the line-of-sight signal is not always detected correctly. In some cases this may mean large errors in both azimuth and elevation readings.	None

# 5 Deprecated Items

Deprecated in release 7.0.1.0

## 6 Removed Items

Removed in release 7.0.1.0

## 7 Using This Release

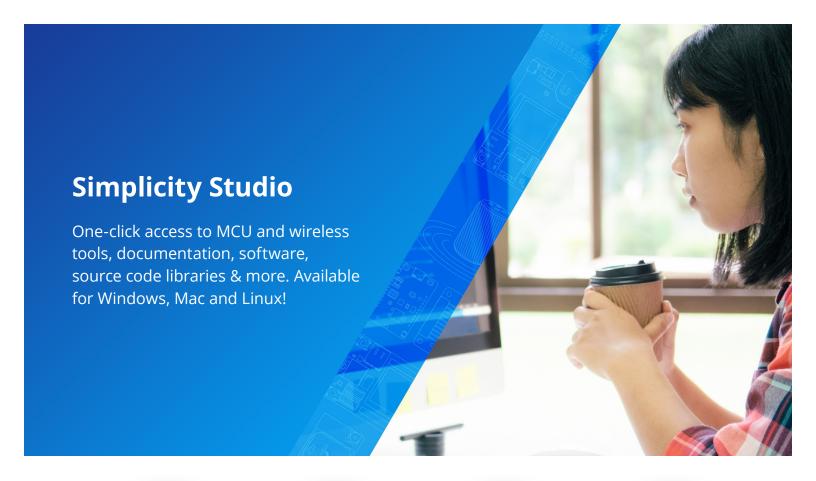
#### 7.1 Installation and Use

For instructions on developing with the RTL library, see <u>AN1296: Application Development with Silicon Labs' RTL Library</u> and the API reference included with the documentation installed through Simplicity Studio in the Bluetooth SDK.

# 7.2 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 or through links on the Simplicity Studio Welcome page.





**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 weapons of mass destruction including (but not limited to) nuclear, biological or chemical weapons, or missiles capable of delivering such weapons. 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 unauthorized applications. Note: This content may contain offensive terminology that is now obsolete. Silicon Labs is replacing these term

#### 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, ThreadArch®, EZLink®, EZRadio®, EZRadio®, Cecko®, 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