



# **Bluetooth<sup>®</sup> Real-Time Locating Library 3.2.1.0 GA**

## **Gecko SDK Suite 3.2**

### **July 21, 2021**

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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.



#### **KEY FEATURES**

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- General quality improvements

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

Real-Time Locating Library 3.2.1.0 in Bluetooth SDK 3.2.1.0 released on July 21, 2021  
Real-Time Locating Library 3.2.0.0 in Bluetooth SDK 3.2.0.0 released on June 16, 2021

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## 1 New Items

### **Added in release 3.2.0.0**

Dual-Polarized antenna support for CoreHW PCB4 and PCB8 boards. The board package files need to be requested through Silicon Labs support.

## 2 Improvements

### Changed in release 3.2.0.0

The Angle Feedback mechanism in the multi-locator algorithm is improved.

### 3 Fixed Issues

#### Fixed in release 3.2.1.0

ID #	Description
712526	Fixed an issue with CTE (AoA/AoD) where device may enter into hardfault if connectionless CTE or Siicon Labs CTE was enabled before connection creation

#### Fixed in release 3.1.0.0

ID #	Description
653321	In certain environments, the elevation reading might get fixed to 89 degrees
653422	Visualization script in <code>aoa_multilocator_gui</code> is missing implementation for showing visualization lines for angles from locators
653412	Visualization script <code>aoa_multilocator_gui</code> may occasionally fail with "RunTimeError: dictionary changed size during iteration"
706445	AOA host app cannot be built on windows
658208	Fix REAL_TIME modes to also handle angle data between 179 and 180 degrees.

## 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

None

## 6 Removed Items

None

## 7 Using This Release

### 7.1 Installation and Use

For instructions on developing with the RTL library, see AN1296: Application Development with Silicon Labs' RTL Library 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.

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

[www.silabs.com](http://www.silabs.com)