

Bluetooth® Real-Time Locating Library 5.0.0.0 GA Gecko SDK Suite 4.2 December 14, 2022

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

Targeted quality improvements and bug fives

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

Real-Time Locating Library 5.0.0.0 in Bluetooth SDK 5.0.0.0 released on December 14, 2022

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1 New Items

2 I	mı	orc	ver	nen	ts
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3 Fixed Issues

Fixed in release 5.0.0.0

ID#	Description
845889	Fixed an issue where elevation estimate could get stuck at 0-20 degrees and also high elevations above 80 degrees when using radiation pattern compensation on BRD4191A.
1070610	CoreHW Gen3 4x4 URA antenna had one setting swapped between two elements in the RTL library, which caused slightly less accurate angle estimates. This is now fixed.
1068579	Polarization estimate for BRD4191A antenna board was not working correctly. The estimation is used for antenna radiation pattern compensation and therefore it was not using the intended values for compensation. This is now fixed.
1058501	When using a BRD4191A dual polarized antenna board and specifying a custom antenna switching pattern for it, the RTL library's IQ sample QA was not using the whole available data for its analysis but a subset of it. It is now fixed.

4 Known Issues in the Current Release

Issues in bold were added since the previous release.

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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

6 Removed Items

7 Using This Release

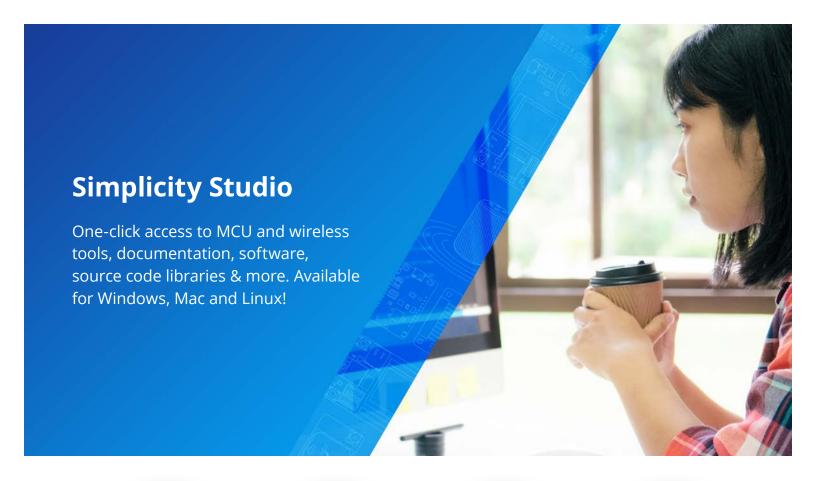
7.1 Installation and Use

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