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.

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

- Real-Time Locating Library 6.3.0.0 in Bluetooth SDK 6.3.0.0 released on March 13, 2024 (underlying code changes only)
- Real-Time Locating Library 6.2.0.0 in Bluetooth SDK 6.2.0.0 released on October 9, 2023 (underlying code changes only)
- Real-Time Locating Library 6.1.0.0 in Bluetooth SDK 6.1.0.0 released on July 26, 2023 (underlying code changes only)
- Real-Time Locating Library 6.0.0.0 in Bluetooth SDK 6.0.0.0 released on June 7, 2023
1 New Items

None
2 Improvements

Changed in release 6.0.0.0

RTL library variants libaox_static_linux_x86_64.a and libaox_static_darwin_x86_64.a are now compiled with Position Independent Code flags. Variants libaox_static_armv7l.a, libaox_static_linux_aarch64.a and libaox_static_windows_x86_64.a are unchanged.
3 Fixed Issues

None
## 4 Known Issues in the Current Release

Issues in bold were added since the previous release.

<table>
<thead>
<tr>
<th>ID #</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>375152</td>
<td>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.</td>
<td>None</td>
</tr>
</tbody>
</table>
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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