

IoT Provider Increases Location Services Accuracy 3X Using New Bluetooth 5.1 Direction Finding Feature

New Silicon Labs Solution Delivers Sub-1-Meter Precision for Asset Tracking, Indoor Positioning and Mobile Engagement

AUSTIN, Texas, Jan. 28, 2019 /PRNewswire/ -- [Silicon Labs](#) (NASDAQ: SLAB) releases new Bluetooth® software for the [Wireless Gecko](#) portfolio, the industry's most comprehensive connectivity solution for the Internet of Things (IoT). Silicon Labs' commercial, industrial and retail customers can enhance their location-based services, such as indoor navigation, asset tracking, space utilization and point-of-interest engagement, using the direction finding feature added to Bluetooth in version 5.1 of the Bluetooth Core Specification, which was released today.

To help meet the growing demands of the location services market, Bluetooth has added a new direction finding feature, allowing devices to determine the direction of a Bluetooth signal. The new feature supports multiple methods for determining signal direction including angle-of-arrival (AoA) and angle-of-departure (AoD), and Silicon Labs' implementation of the new Bluetooth feature enables detection of signal direction within 5 degrees. To date, Bluetooth asset tracking and indoor positioning solutions have typically provided location accuracy within a range of 3-4 meters. With the Silicon Labs Bluetooth 5.1 solution, developers can create products that improve location accuracy down to the sub-1-meter level, opening the door to applications previously not possible.

"The Silicon Labs Bluetooth direction finding solution provides a huge leap in location services accuracy for the industry," said Matt Johnson, Senior Vice President and General Manager of IoT products at Silicon Labs. "The combination of the Silicon Labs wireless solution and the new features added in Bluetooth 5.1 will help developers transform industries and improve people's lives."

In addition to improved location services, Bluetooth 5.1 also helps developers:

- Reduce power consumption with sleep clock accuracy updates
- Improve smart home connection performance using GATT caching functionality
- Optimize beacons for Bluetooth mesh in crowded RF environments with the advertisement channel index feature

"The Bluetooth community continues to find ways to meet evolving market needs and open new opportunities," said Mark Powell, Bluetooth SIG Executive Director. "The addition of Bluetooth direction finding demonstrates this commitment to drive innovation and support the incredible growth opportunity within the location services market."

Silicon Labs' direction finding software, including support for the AoA method, is available today to selected customers through the Silicon Labs [Simplicity Studio](#) development kit. For more information, visit <https://www.silabs.com/bluetooth-direction-finding>.

Silicon Labs

Silicon Labs (NASDAQ: SLAB) is a leading provider of silicon, software and solutions for a smarter, more connected world. Our award-winning technologies are shaping the future of the Internet of Things, Internet infrastructure, industrial automation, consumer and automotive markets. Our world-class engineering team creates products focused on performance, energy savings, connectivity and simplicity. silabs.com

Connect with Silicon Labs

Silicon Labs PR Contact: Dale Weisman +1-512-532-5871, dale.weisman@silabs.com

Follow Silicon Labs at news.silabs.com, at blog.silabs.com, on Twitter at twitter.com/siliconlabs, on LinkedIn at linkedin.com/company/siliconlabs and on Facebook at facebook.com/siliconlabs.

Cautionary Language

This press release may contain forward-looking statements based on Silicon Labs' current expectations. These forward-looking statements involve risks and uncertainties. A number of important factors could cause actual results to differ materially from those in the forward-looking statements. For a discussion of factors that could impact Silicon Labs' financial results and cause actual results to differ materially from those in the forward-looking statements, please refer to Silicon Labs' filings with the SEC. Silicon Labs disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Note to editors: Silicon Labs, Silicon Laboratories, the "S" symbol, the Silicon Laboratories logo and the Silicon Labs logo are trademarks of Silicon Laboratories Inc. All other product names noted herein may be trademarks of their respective holders.

SOURCE Silicon Labs

Additional assets available online:  [Images \(1\)](#)

<https://news.silabs.com/2019-01-28-IoT-Provider-Increases-Location-Services-Accuracy-3X-Using-New-Bluetooth-5-1-Direction-Finding-Feature>