

Silicon Labs Security Advisory

A-00000388

Subject: Security Advisory for Bluetooth Pairing Method Confusion

CVSS Severity: High

Base Score: 8.0, High

Temporal Score: 7.8, High

Vector String: [CVSS:3.1/AV:A/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H/E:H/RL:W/RC:C&version=3.1](#)

Impacted Products:

- Bluetooth LE-capable products including
 - EFR32-based SoCs and associated modules.
 - BT121 and BT122 modules.
 - RS9113 and RS9116 SoCs and associated modules.

Technical Summary

- This is a vulnerability in the Bluetooth protocol.
- A man-in-the-middle attack is possible on devices supporting the LE legacy pairing method.
- An attacker can downgrade the pairing method used by the one of the peers from LE secure connections to LE legacy pairing and determine the passkey entered by that user.
- The following CVE has been reserved for this vulnerability [CVE-2022-25836](#).

Fix/Work Around:

- Product implementations can avoid this vulnerability by requiring LE secure connections to peer devices.
- In cases where enforcing LE secure connections is not feasible, warn the user that they may be entering a passkey for a less secure connection and may be vulnerable to a man-in-the-middle attack.

Guidelines on our security vulnerability policy can be found at <https://www.silabs.com/security>
For Silicon Labs Technical Support visit: <https://www.silabs.com/support>

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