

Silicon Labs Security Advisory

A-00000518

Subject: BLE peripheral DoS after few cycles of connect/disconnects

CVSS Severity: Medium

Base Score: 6.5, Medium

Temporal Score: 6.2, Medium

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

Impacted Products

- EFR32 BLE devices running BLE SDK 7.1.1(GSDK 4.4.3) or below
- EFR32 BLE devices running BLE SDK 8.0.0(SiSDK 2024.6.0)

Please note: As of June 2024, the Gecko SDK was renamed to the Simplicity SDK, and the versioning scheme was changed from Gecko SDK vX.Y.Z to Simplicity SDK YYYY.MM.Patch#

CVE ID(s)

- [CVE-2024-6657](#) [1] is reserved for this issue

Technical Summary

- A denial of service may be caused to a single peripheral device in BLE network when multiple central devices continuously connect and disconnect to the peripheral
- A hard reset is required to recover the peripheral device

Fix/Workaround

- To mitigate the issue, upgrade to:
 - BLE SDK 7.1.2(GSDK 4.4.4) or later except BLE SDK 8.0.0(SiSDK 2024.6.0)
 - BLE SDK 8.1.0 (SiSDK 2024.6.1) or later
- Instructions for [downloading/updating the SDK](#) [2] can be found in our developer documentation
- Please refer to the release notes for [BLE SDK 7.1.2](#) [3], [BLE SDK 8.1.0](#) [4], [Gecko Platform 4.4.4](#) [5] and [Platform SiSDK 2024.6.0](#) [6]

¹ [silabs.com](#) | A-00000518

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References

- [1] <https://nvd.nist.gov/vuln/detail/CVE-2024-6657>
- [2] <https://docs.silabs.com/simplicity-studio-5-users-guide/latest/ss-5-users-guide-about-the-launcher/toolbar#install>
- [3] <https://www.silabs.com/documents/public/release-notes/bt-rtl-library-release-notes-7.1.2.0.pdf>
- [4] <https://www.silabs.com/documents/public/release-notes/bt-software-release-notes-8.1.0.0.pdf>
- [5] <https://www.silabs.com/documents/public/release-notes/gecko-platform-release-notes-4.4.4.0.pdf>
- [6] <https://www.silabs.com/documents/public/release-notes/gecko-platform-release-notes-5.0.0.0.pdf>

Revision History

| Rev | Date | Description of Changes |
|-----|-------------|------------------------|
| 1.0 | 2024-OCT-10 | Initial publication |

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