

Bluetooth® SIG Erratum – Impersonation in the Passkey Entry Protocol



TI-PSIRT-2020-100068

CVEID: CVE-2020-26558

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Summary

A local attacker can insert itself during the Passkey Entry protocol exchange between a central and a peripheral device and impersonate both, acting as a man-in-the-middle (MITM) through the rest of the connection.

CVSS base score: 4.6

CVSS vector: [AV:A/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N](#)

Affected products and versions

- CC2640R2 SDK, [BLE-STACK](#) (SDK v4.40.00.xx and prior versions)
- CC2640R2 SDK, BLE5-STACK (SDK 4.40.00.xx and prior versions)
- CC13X2-26X2-SDK, BLE5-STACK (SDK v4.40.00.44 and prior versions)
- [CC1350](#) SDK, [BLE-STACK](#) (SDK v4.10.xx and prior versions)
- CC26x0 [BLE-STACK](#) (v2.2.5 and prior versions)
- CC2564C TI Dual-Mode *Bluetooth* Stack (v4.2.1.1 and prior versions with SP:v1.4)
- WL18xx TI Dual-Mode *Bluetooth* Stack (v4.2.1.1 and prior versions with SP:v4.6)

Potentially impacted features

The potential vulnerability can impact *Bluetooth*® Low Energy or BR/EDR devices running affected SDK versions that have configured the device as a peripheral and LE secure connections pairing procedure or BR/EDR Secure Simple Pairing/Secure Connections with Passkey pairing method enabled.

Suggested mitigations

The following SDK releases will address the potential vulnerability:

Affected SDK	SDK version with mitigations	SDK release dates with mitigations
CC2640R2 SDK, BLE-STACK	SDK v 5.10.00.02	April 2021
CC2640R2 SDK, BLE5-STACK		
CC13X2-26X2-SDK, BLE5-STACK	SDK v 5.10.00.48	April 2021
CC13x0 SDK, BLE-STACK	SDK v 4.20.00.05	April 2021
BLE-STACK (support for CC2640/CC2650)	BLE-STACK v2.2.6	April 2021
CC2564C TI Dual-Mode <i>Bluetooth</i> Stack	v4.2.1.2 with SP v1.5	May 2021
WL18xx TI Dual-Mode <i>Bluetooth</i> Stack	v4.2.1.2 with SP v4.7	May 2021

External references

[Bluetooth SIG Statement Regarding the 'Impersonation in the Passkey Entry Protocol' Vulnerability](#)

Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from May 23, 2021 to May 27, 2021	Page
• Added "External references" section.....	1

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