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Summary

The TI Bluetooth® Low Energy Over the Air Download (OAD) solution does not support updating Maximum Transmission Unit (MTU) size during an ongoing OAD operation, noted in our Bluetooth Low Energy stack user guide. If MTU size is updated during an OAD process, an attacker can cause buffer overflow that can potentially lead to remote code execution.

The proposed mitigation is to terminate the OAD process in case an MTU size exchange is done after the OAD process has started.

CVSS base score: 8.8


Affected products and versions

• CC2640R2 SDK, BLE-STACK (SDK v4.30.00.08 and prior versions)
• CC13X2-26X2-SDK BLE5-STACK (SDK v4.30.00.54 and prior versions)

Potentially impacted features

The potential vulnerability can impact Bluetooth Low Energy devices running affected SDK versions that use TI OAD sample applications, as no permissions are required for the peer to change MTU size.

Suggested mitigations

The following SDK releases address the potential vulnerability:

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<td>SDK v 4.40.00.10</td>
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<td>CC13X2-26X2-SDK, BLE5-STACK</td>
<td>SDK v 4.40.00.44</td>
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Revision history

• Version 1.0 Initial publication
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