## SECURITY ADVISORY ID:202203101

**REV.2.00** 

JAN.14<sup>TH</sup>, 2025 RENESAS PSIRT RENESAS ELECTRONICS CORPORATION



## SECURITY ADVISORY [ID:202203101] BUFFER OVERREAD IN DTLS CLIENTHELLO PARSING(CVE-2022-35409, CVSS:9.1 CRITICAL)

1. CVEID – CVSS vector [base score] CVE-2022-35409 - CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:H[9.1]

2. Publication date

Feb. 20<sup>th</sup>, 2023

3. Summary

An issue was discovered in Mbed TLS before 2.28.1 and 3.x before 3.2.0. In some configurations, an unauthenticated attacker can send an invalid ClientHello message to a DTLS server that causes a heap-based buffer over-read of up to 255 bytes. This can cause a server crash or possibly information disclosure based on error responses.

## 4. Affected products (and versions)

Product Family	Software	Version
RX Family	FreeRTOS IoT Integrations	202107.00 (Mbed TLS: 2.16.10)
RL78 Family		202002.00 (Mbed TLS: 2.16.0)
RE Family		202012.00 (Mbed TLS: 2.16.8)
RA Family	RA Family Flexible Software Package (FSP)	FSP v4.0.0 and earlier

5. (Potentially) Impacted features

Mbed TLS related S/W used (or implemented) in FreeRTOS and included in the RA Family Flexible Software Package (FSP).

- 6. Suggested fixes/actions/mitigations/remediations.
  - RX Family https://github.com/renesas/iot-reference-rx includes Mbed TLS: 3.2.1 or later
  - RL78 Family
  - No update needed. RL78 uses FreeRTOS but TLS process is off-loaded to wireless module.
  - RE Family
    - No update.
  - RA Family Update to FSP v4.1.0 or later.
- 7. Source/External references <u>https://nvd.nist.gov/vuln/detail/CVE-2022-35409</u>

Revision	Remarks	Date
1.0	Initial publication.	Feb.20, 2023
2.0	Added RA Family information	Jan.14, 2025



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