

SECURITY ADVISORY

ID:202203101

REV.2.00

JAN.14TH, 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. 20th, 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

<https://nvd.nist.gov/vuln/detail/CVE-2022-35409>

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

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