



CVE-2020-12885

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H



Certain versions of [Mbed Os](#) from [Arm](#) contain the following vulnerability:

An infinite loop was discovered in the CoAP library in Arm Mbed OS 5.15.3. The CoAP parser is responsible for parsing received CoAP packets. The function `sn_coap_parser_options_parse_multiple_options()` parses CoAP options in a while loop. This loop's exit condition is computed using the previously allocated heap memory required for storing the result of parsing multiple options. If the input heap memory calculation results in zero bytes, the loop exit condition is never met and the loop is not terminated. As a result, the packet parsing function never exits, leading to resource consumption.

CVE-2020-12885 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: **7.8 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	NONE	COMPLETE

CVE References

Description	Tags	Link				
Bugfix/coap parser mem access bugs by mjurczak · Pull Request #116 · ARMmbed/mbed-coap · GitHub	Third Party Advisory github.com text/html	 CONFIRM github.com/ARMmbed/mbed-coap/pull/116				
Infinite loop in MbedOS CoAP library parser · Issue #12929 · ARMmbed/mbed-os · GitHub	Third Party Advisory github.com text/html	 MISC github.com/ARMmbed/mbed-os/issues/12929				
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.						
There are currently no QIDs associated with this CVE						
Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Arm	Mbed Os	5.15.3	All	All	All
Operating System	Arm	Mbed Os	5.15.3	All	All	All
cpe:2.3:o:arm:mbed_os:5.15.3:*****:						
cpe:2.3:o:arm:mbed_os:5.15.3:*****:						
No vendor comments have been submitted for this CVE						
← Previous ID Next ID→						