



# Prefix-substitution forgery via integer overflow in wolfCrypt CMAC

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2026-5477
<b>State</b>	PUBLISHED
<b>Assigner</b>	wolfSSL
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-04-10 06:16:05 UTC
<b>Updated</b>	2026-04-27 17:51:47 UTC
<b>Description</b>	An integer overflow existed in the wolfCrypt CMAC implementation, that could be exploited to forge CMAC tags. The function

## Risk And Classification

**Primary CVSS:** v4.0 8.2 HIGH from facts@wolfssl.com

CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

**EPSS:** 0.000550000 probability, percentile 0.172450000 (date 2026-04-27)

**Problem Types:** CWE-190 | CWE-190 CWE-190 Integer overflow or wraparound

Version	Source	Type	Score	Severity	Vector
4.0	facts@wolfssl.com	Secondary	8.2	HIGH	CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X
4.0	CNA	CVSS	8.2	HIGH	CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N
3.1	nvd@nist.gov	Primary	7.5	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N

## CVSS v4.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Attack Requirements

Present

Privileges Required

None

User Interaction

None

Confidentiality

None

Integrity

High

Availability

None

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:N/AC:L/AT:P/PR:N/UI:N/VC:N/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

### CVSS v3.1 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

High

Availability

None

CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N

### NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Wolfssl	Wolfssl	All	All	All	All

### Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CVE	Wolfssl	Wolfssl	1.5.0	Linux, Windows

CNA	WolfSSL	WolfSSL	affected 5.9.0 semver	Not specified
References				
Reference	Source	Link	Tags	
github.com/wolfSSL/wolfssl/pull/10102	facts@wolfssl.com	github.com	Issue Tracking	
CVE Program record	CVE.ORG	www.cve.org	canonical	
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis	
Vendor Comments And Credit				
Discovery Credit				
<b>CNA:</b> Calif.io in collaboration with Claude and Anthropic Research (en)				
There are currently no legacy QID mappings associated with this CVE.				

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