



Integer Underflow in DHCPv6 Sub-Option Parser in FreeRTOS-Plus-TCP

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

Summary

CVE	CVE-2026-7424
State	PUBLISHED
Assigner	AMZN
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-04-29 19:16:26 UTC
Updated	2026-04-29 23:16:20 UTC
Description	Integer underflow in the DHCPv6 sub-option parser in FreeRTOS-Plus-TCP before V4.4.1 and V4.2.6 allows an adjacent n

Risk And Classification

Primary CVSS: v4.0 7.2 HIGH from ff89ba41-3aa1-4d27-914a-91399e9639e5

CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:H/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

Problem Types: CWE-191 | CWE-191 CWE-191: Integer Underflow (Wrap or Wraparound)

Version	Source	Type	Score	Severity	Vector
4.0	ff89ba41-3aa1-4d27-914a-91399e9639e5	Secondary	7.2	HIGH	CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:H/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	7.2	HIGH	CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:H/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
3.1	ff89ba41-3aa1-4d27-914a-91399e9639e5	Secondary	8.1	HIGH	CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:H
3.1	CNA	CVSS	8.1	HIGH	CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:H

CVSS v4.0 Breakdown

Attack Vector

Adjacent

Attack Complexity

Low

Attack Requirements

None

Privileges Required

None

User Interaction

None

None

Confidentiality

None

Integrity

High

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:H/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

Adjacent

Attack Complexity

Low

Privileges Required

None

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

High

Availability

High

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

Vendor Declared Affected Products				
Source	Vendor	Product	Version	Platforms
CNA	AWS	FreeRTOS-Plus-TCP	affected 4.0.0 4.2.6 semver	Not specified
CNA	AWS	FreeRTOS-Plus-TCP	affected 4.3.0 4.4.1 semver	Not specified
CNA	AWS	FreeRTOS-Plus-TCP	unaffected 4.2.6	Not specified
CNA	AWS	FreeRTOS-Plus-TCP	unaffected 4.4.1	Not specified

References

Reference	Source	Link
github.com/FreeRTOS/FreeRTOS-Plus-TCP/security/advisories/GHSA-wrhm-c99p...	ff89ba41-3aa1-4d27-914a-91399e9639e5	github.cor
aws.amazon.com/security/security-bulletins/2026-022-aws	ff89ba41-3aa1-4d27-914a-91399e9639e5	aws.amaz
github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.2.6	ff89ba41-3aa1-4d27-914a-91399e9639e5	github.cor
github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.4.1	ff89ba41-3aa1-4d27-914a-91399e9639e5	github.cor
CVE Program record	CVE.ORG	www.cve.
NVD vulnerability detail	NVD	nvd.nist.g

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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