



# MAC Address Validation Bypass in FreeRTOS-Plus-TCP IPv4 and IPv6 Packet Processing

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

## Summary

<b>CVE</b>	CVE-2026-7422
<b>State</b>	PUBLISHED
<b>Assigner</b>	AMZN
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-04-29 19:16:26 UTC
<b>Updated</b>	2026-04-30 15:13:14 UTC
<b>Description</b>	Insufficient packet validation in FreeRTOS-Plus-TCP before V4.2.6 and V4.4.1 allows an adjacent network actor to bypass

## Risk And Classification

**Primary CVSS:** v4.0 7.1 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: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

**Problem Types:** CWE-290 | CWE-290 CWE-290: Authentication Bypass by Spoofing

Version	Source	Type	Score	Severity	Vector
4.0	ff89ba41-3aa1-4d27-914a-91399e9639e5	Secondary	7.1	HIGH	CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:
4.0	CNA	CVSS	7.1	HIGH	CVSS:4.0/AV:A/AC:L/AT:N/PR:N/UI:N/VC:N/VI:H/VA:
3.1	ff89ba41-3aa1-4d27-914a-91399e9639e5	Secondary	6.5	MEDIUM	CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N
3.1	CNA	CVSS	6.5	MEDIUM	CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N

## 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

None

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: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

Adjacent

Attack Complexity

Low

Privileges Required

None

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

High

Availability

None

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

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
<a href="https://aws.amazon.com/security/security-bulletins/2026-021-aws">aws.amazon.com/security/security-bulletins/2026-021-aws</a>	ff89ba41-3aa1-4d27-914a-91399e9639e5	<a href="https://aws.amazon.com/security/security-bulletins/2026-021-aws">aws.amazon.com</a>
<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/security/advisories/GHSA-jpw4-6h59...">github.com/FreeRTOS/FreeRTOS-Plus-TCP/security/advisories/GHSA-jpw4-6h59...</a>	ff89ba41-3aa1-4d27-914a-91399e9639e5	<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/security/advisories/GHSA-jpw4-6h59...">github.com</a>
<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.2.6">github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.2.6</a>	ff89ba41-3aa1-4d27-914a-91399e9639e5	<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.2.6">github.com</a>
<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.4.1">github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.4.1</a>	ff89ba41-3aa1-4d27-914a-91399e9639e5	<a href="https://github.com/FreeRTOS/FreeRTOS-Plus-TCP/releases/tag/V4.4.1">github.com</a>
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>

No vendor comments have been submitted for this CVE.

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

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