



GHSL-2025-058 - 7-Zip Multi-byte write heap buffer overflow in NCompress::NRar5::CDecoder

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

Summary

CVE	CVE-2025-53816
State	PUBLISHED
Assigner	GitHub_M
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-07-17 19:15:25 UTC
Updated	2026-05-11 18:16:30 UTC
Description	7-Zip is a file archiver with a high compression ratio. Zeroes written outside heap buffer in RAR5 handler may lead to memc

Risk And Classification

Primary CVSS: v4.0 5.5 MEDIUM from security-advisories@github.com

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:P/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: 0.001320000 probability, percentile 0.322510000 (date 2026-05-12)

Problem Types: CWE-122 | CWE-122 CWE-122: Heap-based Buffer Overflow

Version	Source	Type	Score	Severity	Vector
4.0	security-advisories@github.com	Secondary	5.5	MEDIUM	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:P/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	DECLARED	5.5	MEDIUM	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:P/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	nvd@nist.gov	Primary	7.5	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

None

Privileges Required

None

User Interaction

None

Confidentiality

None

Integrity

None

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:N/VC:N/VI:N/VA:H/SC:N/SI:N/SA:N/E:P/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

None

Availability

High

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

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	7-zip	7-zip	All	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CVE-2022-37906	7-zip	7-zip	22.00-22.01	Windows, Linux, macOS

CNA

lpavlov

/-Zip

affected < 25.0.0

Not specified

References

Reference	Source	Link	Tags
www.openwall.com/lists/oss-security/2025/07/18/1	security-advisories@github.com	www.openwall.com	Exploit,
www.openwall.com/lists/oss-security/2025/07/18/1	af854a3a-2127-422b-91ae-364da2661108	www.openwall.com	
securitylab.github.com/advisories/GHSL-2025-058_7-Zip	security-advisories@github.com	securitylab.github.com	Exploit,
lists.debian.org/debian-lts-announce/2026/05/msg00021.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org	
CVE Program record	CVE.ORG	www.cve.org	canonic
NVD vulnerability detail	NVD	nvd.nist.gov	canonic

No vendor comments have been submitted for this CVE.

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

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