



Open Babel CIF File transform3d.cpp DescribeAsString out-of-bounds

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

Summary

CVE	CVE-2026-2704
State	PUBLISHED
Assigner	VulDB
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-02-19 07:17:49 UTC
Updated	2026-04-29 01:00:01 UTC
Description	A security vulnerability has been detected in Open Babel up to 3.1.1. The affected element is the function OpenBabel::trans

Risk And Classification

Primary CVSS: v4.0 2.1 LOW from cna@vuldb.com

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

Problem Types: CWE-119 | CWE-125 | CWE-125 Out-of-Bounds Read | CWE-119 Memory Corruption

Version	Source	Type	Score	Severity	Vector
4.0	cna@vuldb.com	Secondary	2.1	LOW	CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:P/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P/C..
4.0	CNA	DECLARED	5.3	MEDIUM	CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:P/VC:N/VI:N/VA:L/SC:N/SI:N/SA:N/E:P
3.1	nvd@nist.gov	Primary	8.1	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:N/A:H
3.1	cna@vuldb.com	Secondary	4.3	MEDIUM	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:L
3.1	CNA	DECLARED	4.3	MEDIUM	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:L/E:P/RL:O/RC:C
3.0	CNA	DECLARED	4.3	MEDIUM	CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:L/E:P/RL:O/RC:C
2.0	cna@vuldb.com	Secondary	5		AV:N/AC:L/Au:N/C:N/I:N/A:P
2.0	CNA	DECLARED	5		AV:N/AC:L/Au:N/C:N/I:N/A:P/E:POC/RL:OF/RC:C

CVSS v4.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Attack Requirements

None

Privileges Required

None

User Interaction

Passive

Confidentiality

None

Integrity

None

Availability

Low

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:N/AC:L/AT:N/PR:N/UI:P/VC:N/VI:N/VA:L/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/MS:C:X/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

Required

Scope

Unchanged

Confidentiality

High

Integrity

None

Availability

High

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

CVSS v3.0 Breakdown

Attack Vector

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

None

Integrity

None

Availability

Low

CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:N/I:N/A:L/E:P/RL:O/RC:C

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Openbabel	Open Babel	All	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	Open Babel	affected 3.1.0	Not specified
CNA	Na	Open Babel	affected 3.1.1	Not specified

References

Reference	Source	Link	Tags
github.com/oneafter/0128/blob/main/ob1/repro.cif	cna@vuldb.com	github.com	Exploit
vuldb.com	cna@vuldb.com	vuldb.com	Permissions Required
vuldb.com	cna@vuldb.com	vuldb.com	Third Party Advisory
github.com/openbabel/openbabel/issues/2848	cna@vuldb.com	github.com	Exploit, Third Party
github.com/openbabel/openbabel/pull/2862	cna@vuldb.com	github.com	
github.com/VedantMadane/openbabel/commit/e23a224b8fd9d7c2a7cde9ef4ec6afb...	cna@vuldb.com	github.com	
vuldb.com	cna@vuldb.com	vuldb.com	Third Party Advisory
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis

Vendor Comments And Credit

Discovery Credit

CNA: Oneafter (VulDB User) (en)

Additional Advisory Data

Source	Time	Event
CNA	2026-02-18T00:00:00.000Z	Advisory disclosed
CNA	2026-02-18T01:00:00.000Z	VulDB entry created
CNA	2026-03-01T08:11:57.000Z	VulDB entry last update

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

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