



CVE-2025-54517

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

Summary

CVE	CVE-2025-54517
State	PUBLISHED
Assigner	AMD
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-05-15 03:16:22 UTC
Updated	2026-05-15 03:16:22 UTC
Description	Out of bounds write in AMD AMDGV_CMD_GET_DIAG_DATA ioctl handler could allow a local user to escalate privileges v

Risk And Classification

Primary CVSS: v4.0 8.5 HIGH from psirt@amd.com

CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:H/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-787 | CWE-787 CWE-787 Out-of-bounds Write

Version	Source	Type	Score	Severity	Vector
4.0	psirt@amd.com	Secondary	8.5	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:H/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	8.5	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

None

Privileges Required

Low

User Interaction

None

Confidentiality

High

Integrity

High

High

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

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

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	AMD	AMD Instinct MI250	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Instinct MI308X	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Instinct MI300A	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Instinct MI300X	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Instinct MI325X	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Instinct MI210	unaffected GIM Driver 8.4	Not specified
CNA	AMD	AMD Radeon PRO V620	unaffected Contact your AMD Customer Engineering representative	Not specified
CNA	AMD	AMD Radeon PRO V710	unaffected Contact your AMD Customer Engineering representative	Not specified

References

Reference	Source	Link	Tags
www.amd.com/en/resources/product-security/bulletin/AMD-SB-6027.html	psirt@amd.com	www.amd.com	
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: Reported through AMD Bug Bounty Program (en)

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

completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

Free CVE JSON API cve.report/api

CVE.report and Source URL Uptime Status status.cve.report