

Security Bulletin

NVIDIA GPU Display Drivers – October 2025

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List of changes

Version	Date	Description
2.1	2026/01/13	Remediation Eviden version

Executive summary

CVE-2025-23309 – score 8.2

NVIDIA Display Driver contains a vulnerability where an uncontrolled DLL loading path might lead to arbitrary denial of service, escalation of privileges, code execution, and data tampering.

CVE-2025-23347 – score 7.8

NVIDIA Project G-Assist contains a vulnerability where an attacker might be able to escalate permissions. A successful exploit of this vulnerability might lead to code execution, escalation of privileges, data tampering, denial of service, and information disclosure.

CVE-2025-23280 – score 7.0

NVIDIA Display Driver for Linux contains a vulnerability where an attacker could cause a use-after-free. A successful exploit of this vulnerability might lead to code execution, escalation of privileges, data tampering, denial of service, and information disclosure.

CVE-2025-23282 – score 7.0

NVIDIA Display Driver for Linux contains a vulnerability where an attacker might be able to use a race condition to escalate privileges. A successful exploit of this vulnerability might lead to code execution, escalation of privileges, data tampering, denial of service, and information disclosure.

CVE-2025-23300 – score 5.5

NVIDIA Display Driver for Linux contains a vulnerability in the kernel driver, where a user could cause a null pointer dereference by allocating a specific memory resource. A successful exploit of this vulnerability might lead to denial of service.

CVE-2025-23332 – score 5.0

NVIDIA Display Driver for Linux contains a vulnerability in a kernel module, where an attacker might be able to cause a null pointer deference. A successful exploit of this vulnerability might lead to denial of service.

CVE-2025-23345 – score 4.4

NVIDIA Display Driver for Windows and Linux contains a vulnerability in a video decoder, where an attacker might cause an out-of-bounds read. A successful exploit of this vulnerability might lead to information disclosure or denial of service.

Vulnerability Info

CVE No.	CVSS Score	Type of Vulnerability
CVE-2025-23280	7.0	CWE-416 Use After Free
CVE-2025-23282	7.0	CWE-415 Double Free
CVE-2025-23300	5.5	CWE-476 NULL Pointer Dereference
CVE-2025-23309	8.2	CWE-427 Uncontrolled Search Path Element
CVE-2025-23330	5.5	CWE-476 NULL Pointer Dereference
CVE-2025-23332	5.0	CWE-476 NULL Pointer Dereference
CVE-2025-23345	4.4	CWE-125 Out-of-bounds Read
CVE-2025-23347	7.8	CWE-276 Incorrect Default Permissions
CVE-2025-23352	7.8	CWE-824 Access of Uninitialized Pointer

Eviden is investigating the exact nature of these vulnerabilities to provide validated remediation.

Affected products

Products	Fixed version	Status	Comments
Nvidia GPU Display Driver	580.95.05	Fixed	

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TBD (to be defined) indicates that a new version fixing the vulnerabilities is under study.

Unpatched means that the vulnerability is presumably present, but there is no plan to provide a fix. This can be investigated on demand.

List of HPC Management products

Products	Fixed version	Comment
OpenMPI4	418.3	
OpenMPI5	508.2	

Product	NVIDIA Driver	Delivery HPC
Nvidia GPU Display Driver	580.95.05	1301.0.3

Recommendations

Eviden recommends applying its Technical States upgrade on its servers as soon as they are made available.

Available Vendor Patches

NVIDIA confirmed information about patches:

Software Product	Operating System	Driver Branch	Affected Driver Versions	Updated Driver Version
GeForce	Linux	R580	All driver versions prior to 580.95.05	580.95.05
		R570	All driver versions prior to 570.195.03	570.195.03
		R535	All driver versions prior to 535.274.02	535.274.02
NVIDIA RTX, Quadro, NVS	Linux	R580	All driver versions prior to 580.95.05	580.95.05
		R570	All driver versions prior to 570.195.03	570.195.03
		R535	All driver versions prior to 535.274.02	535.274.02
Tesla	Linux	R580	All driver versions prior to 580.95.05	580.95.05
		R570	All driver versions prior to 570.195.03	570.195.03
		R535	All driver versions prior to 535.274.02	535.274.02

Available Workarounds

No workaround is available.

Available Mitigations

No mitigation identified.

Available Exploits/PoC

Eviden is not aware of any exploitation of the reported vulnerabilities.

References

1. https://nvidia.custhelp.com/app/answers/detail/a_id/5703

Glossary of terms

Term	Description
Mitigation	Refers to a setting, common configuration, or general best-practice, existing in a default state that could reduce the severity of exploitation of a vulnerability
Neutralization	The neutralization phase is the decision-making process during which the risk posed by an incident is evaluated.
PoC	Proof of Concept
Remediation	The remediation phase ends with the delivering of a qualified solution/update fixing the vulnerability without regression.
TI	Threat Intelligence
TLP	Traffic Light Protocol (TLP) FIRST Standards Definitions and Usage Guidance — Version 2.0. https://www.first.org/tlp/
Workaround	Refers to a setting or configuration change that does not correct the underlying vulnerability but would help block known attack vectors before you apply the update

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- Privately disclosed Remediation security bulletins are numbered 1.x
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