

مجلس الأمن السيبراني
CYBER SECURITY COUNCIL



Security Updates - NVIDIA

Tracking #:432317809

Date:13-10-2025

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EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed that NVIDIA has released security updates to address multiple vulnerabilities in its products.

TECHNICAL DETAILS:

NVIDIA has released security updates to address multiple vulnerabilities affecting NVIDIA GPU Display Drivers, vGPU Software, and Cloud Gaming products. Exploitation of these vulnerabilities could allow local attackers to execute arbitrary code, escalate privileges, tamper with data, disclose sensitive information, or cause denial of service.

Vulnerabilities Details:

- **CVE-2025-23309** – High (CVSS 8.2) – Uncontrolled DLL loading path in NVIDIA Display Driver.
- **CVE-2025-23347** – High (CVSS 7.8) – Vulnerability in NVIDIA Project G-Assist.
- **CVE-2025-23352** – High (CVSS 7.8) – Uninitialized pointer access in NVIDIA vGPU Software Virtual GPU Manager.
- **CVE-2025-23280** – High (CVSS 7.0) – Use-after-free in NVIDIA Display Driver for Linux.
- **CVE-2025-23282** – High (CVSS 7.0) – Race condition in NVIDIA Display Driver for Linux.
- **CVE-2025-23300** – Medium (CVSS 5.5) – Null pointer dereference in NVIDIA Display Driver for Linux.
- **CVE-2025-23330** – Medium (CVSS 5.5) – Null pointer dereference in NVIDIA Display Driver for Linux.
- **CVE-2025-23332** – Medium (CVSS 5.0) – Null pointer dereference in a Linux kernel module.
- **CVE-2025-23345** – Medium (CVSS 4.4) – Out-of-bounds read in NVIDIA Display Driver for Windows and Linux.

Affected Products:

- **Windows Drivers:** GeForce, RTX, Quadro, NVS, Tesla (branches R580, R570, R535)
- **Linux Drivers:** GeForce, RTX, Quadro, NVS, Tesla (branches R580, R570, R535)
- **vGPU Software:** Guest drivers and Virtual GPU Manager for Windows, Linux, XenServer, VMware vSphere, and RHEL KVM
- **Cloud Gaming:** Linux guest driver and vGPU Manager

Fixed Versions:

- **Windows:** 581.42 (R580), 573.76 (R570), 539.56 (R535)
- **Linux:** 580.95.05 (R580), 570.195.03 (R570), 535.274.02 (R535)
- **vGPU Manager / Cloud Gaming:** upgrade to the latest versions listed in NVIDIA's official documentation.

RECOMMENDATIONS:

The UAE Cyber Security Council recommends applying the fixed or latest updates released by the NVIDIA.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

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