What's New in Virtual GPU Software R525 for All Supported Hypervisors

Release Notes

RN-09409-001 _v15.0 through 15.2 | March 2023

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Chapter 1. Updates by Release

Updates for each release in this release family of NVIDIA vGPU software may include new features, introduction of hardware and software support, and withdrawal of hardware and software support.

1.1. Updates in Release 15.2

New Features in Release 15.2

- Support for authenticated local proxy servers by licensed clients of a Cloud License Service (CLS) instance
- Security updates - see *Security Bulletin: NVIDIA GPU Display Driver - March 2023*, which is posted shortly after the release date of this software and is listed on the NVIDIA Product Security page
- Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 15.2

- Support for the for the following GPUs:
  - NVIDIA H800 PCIe 80GB
  - NVIDIA L4
- Support for Rocky Linux as a guest OS
- Support for Citrix Virtual Apps and Desktops version 7 2303

Features Deprecated in Release 15.2

The following table lists features that are deprecated in this release of NVIDIA vGPU software. Although the features remain available in this release, they might be withdrawn in a future release. In preparation for the possible removal of these features, use the preferred alternatives listed in the table.

Deprecated Feature	Preferred Alternatives
CentOS Linux as a guest OS	Rocky Linux

Deprecated Feature	Preferred Alternatives
The following CentOS Linux releases are the last releases to be supported by NVIDIA vGPU software: ▸ CentOS Linux 7.9 ▸ CentOS Linux 8 (2011)	Rocky Linux releases that are compatible with supported Red Hat Enterprise Linux releases are supported.

1.2. Updates in Release 15.1

New Features in Release 15.1

- Support for GPU System Processor (GSP) in NVIDIA vGPU deployments on GPUs based on the NVIDIA Ada Lovelace architecture
- Support for hibernation with GPU-P on Microsoft Azure Stack HCI
- Options in the NVML API and the `nvidia-smi` command for getting information about the scheduling behavior of time-sliced vGPUs
- Support for independent operation of NVIDIA CUDA Toolkit profilers on MIG-backed vGPUs on GPUs based on the NVIDIA Hopper architecture
- Support for NVIDIA Virtual Applications (vApps) on Linux OSes
- Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 15.1

- Support for the for the following GPUs:
  - NVIDIA L40
  - NVIDIA RTX 6000 Ada
- Support for Windows 11 22H2 as a guest OS
- Support for Windows 10 2022 Update (22H2) as a guest OS
- Support for the following OS releases as a guest OS on the Ubuntu hypervisor:
  - Microsoft Windows 11
  - Microsoft Windows 10
- Support for Citrix Virtual Apps and Desktops version 7 2212
- Support for VMware Horizon 2212 (8.8)
- Reinstatement of support for NVIDIA Virtual GPU Management Pack for VMware vRealize Operations

  Support is reinstated with the release of NVIDIA Virtual GPU Management Pack for VMware vRealize Operations 3.1. This release is compatible with the vGPU management daemon, which is based on the VMware DSDK framework.

1.3. Updates in Release 15.0

New Features in Release 15.0

- Support for NVIDIA GPUDirect® Storage technology on MIG-backed vGPUs
- Assignment of multiple fractional vGPUs to a single VM

  A fractional vGPU is allocated only a fraction of the physical GPU's frame buffer.
- Support for NVIDIA Virtual Compute Server (vCS) in Windows guest VMs on Red Hat Enterprise Linux with KVM hypervisor
- DCH packaging of the NVIDIA vGPU software graphics driver for Windows guest OSes

  Note: As a result of this change, the path to the registry key for configuring NVIDIA vGPU software licensing has changed. After an upgrade from a package that is not DCH compliant, license settings must be reconfigured in the registry key at the new path to ensure that a VM in which the driver has been upgraded can acquire a license.
- Support for a mixture of TCC and WDM operation for Windows VMs to which multiple vGPUs are assigned
- Unified memory support on the following GPUs:
  - NVIDIA A100 (all variants)
  - NVIDIA A30
- Support for non-transparent local proxy servers when NVIDIA vGPU software is served licenses by a Cloud License Service (CLS) instance
- Migration of the Virtual GPU Manager for VMware vSphere to the VMware Daemon SDK (DSDK)
- Miscellaneous bug fixes

Hardware and Software Support Introduced in Release 15.0

- Support for the following GPUs:
  - NVIDIA A100 PCIe 80GB liquid cooled
  - NVIDIA A800 PCIe 80GB
  - NVIDIA A800 PCIe 80GB liquid cooled
  - NVIDIA A800 HGX 80GB
  - NVIDIA H100 PCIe 80GB
- Support for Microsoft Azure Stack HCI
- Support for Red Hat Enterprise Linux with KVM hypervisor 9.1 and 8.7
- Support for VMware vSphere 8.0

- Support for Red Hat Enterprise Linux 9.1 and 8.7 as a guest OS
- Support for Red Hat CoreOS 4.11 as a guest OS
- Support for Citrix Virtual Apps and Desktops version 7 2209
- Support for VMware Horizon 2209 (8.7)

Feature Support Withdrawn in Release 15.0

- The legacy NVIDIA vGPU software license server is no longer supported.

  Note: If you are using the legacy NVIDIA vGPU software license server to serve licenses for an earlier vGPU software release, you **must** migrate your licenses to NVIDIA License System as part of your upgrade to NVIDIA vGPU software 15.0. Otherwise, your guest VMs will **not** be able to acquire a license for NVIDIA vGPU software. For more information, refer to Migrating Licenses from a Legacy NVIDIA vGPU Software License Server in the NVIDIA License System documentation.

- All versions of Microsoft Windows Server 2016 with Hyper-V role are no longer supported as a hypervisor.
- VMware vSphere Hypervisor (ESXi) 6.7 and 6.5 are no longer supported.
- Red Hat CoreOS 4.7 is longer supported as a guest OS
- All versions of Microsoft Windows Server 2016 are no longer supported as a guest OS.
- NVIDIA Virtual GPU Management Pack for VMware vRealize Operations is no longer supported.

  Support is withdrawn because the CIM provider on which the management pack depends has been replaced by a management daemon based on the VMware DSDK framework.

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