NVIDIA GRID™ AND VMWARE GRAPHICS-ACCELERATED VIRTUAL DESKTOPS AND APPLICATIONS

NVIDIA GRID technology delivers graphics-rich experiences to users throughout an organization by accelerating graphics processing in virtualized environments by harnessing the power of a GPU.

VMware Solutions

By adding GRID-enabled software and NVIDIA GPUs to an existing VMware solution, IT managers can finally empower more users with full graphics capability, wherever they are. VMware and NVIDIA work hand-in-hand to advance virtual 3D and video acceleration technology and enable delivery of high-end virtual desktops and applications.

The NVIDIA Compatibility Guarantee

NVIDIA GRID ensures that virtualized users experience the same state-of-the-art graphics they have at their desk. NVIDIA works with over 100 leading application companies to ensure this experience meets their stringent application certification standards. A list of these solutions can be found at **www.nvidia.com/gridcertifications.**

	NVIDIA COMPATIBILITY GUARANTEE	APPLICATION CERTIFICATIONS	GRAPHICS APIs SUPPORTED
VMWARE VIRTUAL WORKSTATIONS			
Horizon View (5.3 or higher) with vDGA[2]	✔	✔	DirectX 9, 10, 11 OpenGL 4.4 NVIDIA CUDA 5.0
VMWARE VIRTUAL DESKTOPS			
Horizon View (5.2 or higher) with vSGA[2]		✔	DirectX 9 OpenGL 2.1

Benefits of NVIDIA GRID for IT:

- Leverage industry-leading VMware virtualization solutions
- Add graphics-intensive users to your virtual solutions
- Improve the productivity of all users

Benefits of NVIDIA GRID for users:

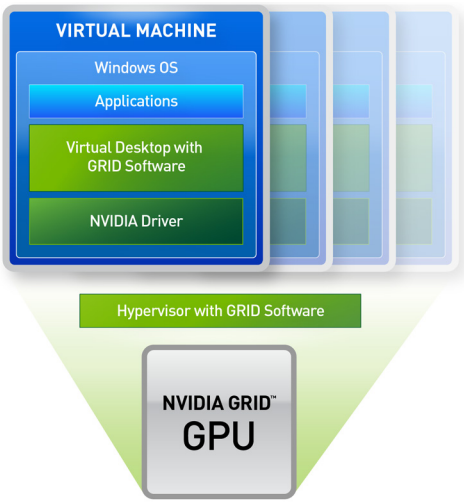
- Enjoy responsive windows and rich multimedia experiences
- Access all critical applications quickly and easily
- Take advantage of the applications you need from anywhere, on any device

In collaboration with VMware

VMware Solutions

VMware Horizon View with vDGA

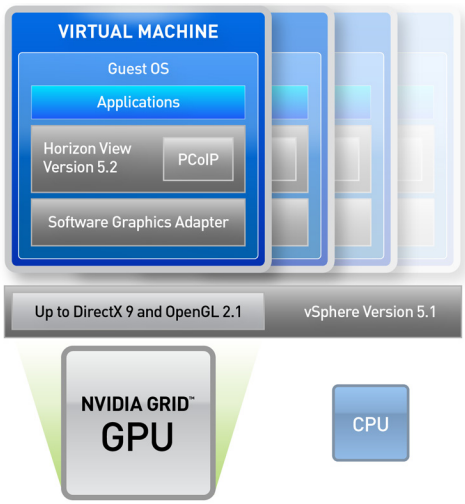
NVIDIA GRID™-accelerated VMware Horizon View with vDGA is ideal for 3D graphics-intensive applications. With GRID, everyone can now get the full experience of a local PC while running on a virtual desktop served from the data center. A wide range of graphics applications—from PowerPoint and videos to intensive 3D CAD and interactive rendering of medical imagery—are now fully interactive with NVIDIA GRID. By leveraging GRID technology with full 3D and compute API support through the latest NVIDIA Quadro® drivers, users can take advantage of the thousands of applications that run OpenGL 4.4, Microsoft DirectX9, 10, 11, or NVIDIA CUDA® 5.0.



With the VMware vDGA solution, 3D graphics intensive applications that run OpenGL 4.4, Microsoft DirectX9, 10, 11, or NVIDIA CUDA® 5.0 are hardware accelerated by the GPU.

VMware Horizon View with vSGA

Enterprise IT organizations can dramatically improve user productivity with VMware Horizon View with Virtual Shared Graphics Acceleration (vSGA). VMware Horizon View now allows multiple users to share a graphics accelerator so that virtual desktops for knowledge workers can work on an accelerated desktop with the performance they've come to expect at their desk[1]. By harnessing the power of NVIDIA GRID, users can take advantage of the thousands of applications that run DirectX 9 or OpenGL 2.1.

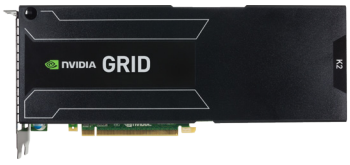


With the VMware vSGA solution, Graphics APIs up to DirectX 9 and OpenGL 2.1 are hardware accelerated by the GPU

NVIDIA GRID Graphics Boards

GRID graphics boards are designed specifically for the data center. They have an optimized multi-GPU design that helps maximize user density and are designed to provide data center-class power efficiency, including the revolutionary new streaming "SMX" multiprocessor. Working closely with leading server vendors such as Cisco, Dell, HP, IBM, and SuperMicro ensures GRID cards perform 24/7 for the life of the system.

NVIDIA GRID K1



NVIDIA GRID K2

OEM Systems Partners

Also available from Asus, Fujitsu, Hitachi, Huawei, Inspur, Nutanix, Sugon, Tyan, and Quanta. A complete list can be found at **www.nvidia.com/buygrid**.

VMware and NVIDIA collaborate closely during product development to assure stability and reliability of the platform. As part of a joint Certification Program, NVIDIA GRID solutions are thoroughly tested to ensure customers get the performance they expect.

For more information or to purchase available systems, visit **www.nvidia.com/vdi**

1. Hypervisor intercept model adds some latency. | 2.Only compatible with VMware vSphere Hypervisor. Consult VMware for compatibility.