DELIVER BRILLIANT CAD PERFORMANCE
NVIDIA GRID™ vGPU™ with VMware Horizon® delivers superior virtualized graphics performance. Employees across the organization, from engineers and designers to factory floor workers and management can benefit from GPU-based accelerated graphics for virtualized workstations, desktops, and apps.

Manufacturers are becoming more dependent on mobile and distributed workforces to efficiently collaborate in real-time on designing and building increasingly complex products. However, the vast majority of installed computer-aided design (CAD) software is optimized for use on local, high-powered workstations. This limitation tends to reinforce working in isolation, as the processing power and data are out of sync with mobile, globally dispersed project teams.

REVOLUTIONIZING MANUFACTURING WORKFLOWS

NVIDIA GRID vGPU with VMware Horizon help take CAD to the next level, delivered from the cloud, with greater performance than ever before. For designers and engineers, vGPU—or graphics processing unit virtualization—delivers scalable hardware based graphics performance for virtualized desktops and CAD apps—increasing autonomy, while bringing the extended project team together, and moving the design process closer to customers.
Brilliant CAD and PLM performance for manufacturing workflows

Designers and engineers using CAD and PLM solutions on virtual desktops get a truly responsive experience—just like they’d expect from a physical workstation. Users can view and manipulate large 3D models without lag or delay. This translates to increased efficiency and productivity.

Creating a secure, mobile manufacturing design and PLM workforce

Shifting design models and data off distributed PCs into data centers secures mission-critical designs and IP, speeds the design process and gives designers and engineers more work-style freedom. Employees gain mobility and autonomy through instant access to the applications and data they need from anywhere—at the office, on the road, on the factory floor, or even at home.

Real-time, graphics-intensive collaboration for geographically distributed teams

Employees and vendors working in geographically dispersed teams can securely access the tools, design environments, and data they need to solve challenges in real-time. And by creating an environment where real-time, global collaboration is possible, companies gain an increased ability to recruit top talent in more locations.

SUCCESS WITH GRID vGPU WITH VMWARE HORIZON FOR CAD

As model sizes and design complexity continue to increase, manufacturing workflows using CAD software are an unusually good fit with digital workspace technology. GRID vGPU with VMware Horizon solves problems unique to manipulating large, visually rich data.

NVIDIA GRID graphics drivers are fully tested and supported by industry leading Independent Software Vendors (ISVs) in a Virtual Desktop Infrastructure (VDI) environment. This process validates that CAD software users get the same graphics performance and experience in a virtualized environment, as they would expect from their PC or workstation. VMware Horizon, built on vSphere, provides users access to graphics intensive CAD applications, as well as all their Windows and web resources, through one unified workspace while streamlining and automating desktop and application management.

VIRTUALIZATION BEST PRACTICES FOR ENTERPRISE MANUFACTURING WORKFLOWS:

› Put user experience at the center of their strategy and priorities.
› Enrich the user’s desktop environment with cloud services, such as file sharing and an enterprise app store.
› Make sure users’ personal settings and applications persist from one session to the next.

“Airbus decided to implement virtual desktops to streamline end-user access and easily enable suppliers to access major applications supporting Airbus aircraft development. The power of the combined offering [from VMware and NVIDIA] will allow us to achieve even more efficient business cases.”

Philippe Muhlhouse
Head of EE M&A Architecture and Standards
Airbus ICT

VMware Horizon, built on vSphere, provides users access to graphics intensive CAD applications, as well as all their Windows and web resources, through one unified workspace while streamlining and automating desktop and application management.
“When an employee using a desktop or a notebook computer wants to see the operation card and needs high-end processing, memory, and performance, it is more efficient to let him use the virtual platform rather than put a second computer on his desk.”

Emre Ülgen
Client System and Service Management Specialist
Tofaş

VIRTUALIZATION TECHNOLOGY FOR MANUFACTURING

By allowing multiple virtual machines (VM) to access the power of a single GPU within the virtualization server, enterprises can now maximize the number of users with access to true GPU-based graphics acceleration in their virtual machines. Because each physical GPU within the server can be configured with a specific vGPU profile, organizations have a great deal of flexibility in how to best configure their server to meet the needs of various types of end users.
Together NVIDIA and VMware are revolutionizing manufacturing workflows by delivering unprecedented rich graphics capabilities for the most demanding professional designers and engineers via access to dedicated or shared virtualized GPUs. Traditional slow, frustrating CPU-based graphics virtualization has been replaced by fully accelerated remote 3D graphics.

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**NVIDIA GRID GPUs AND DRIVERS TESTED AND SUPPORTED BY LEADING ISV APPLICATIONS**

- AUTODESK® AUTOCAD®
- AUTODESK® INVENTOR®
- AUTODESK® REVIT®
- NX
- TEAMCENTER
- PTC®
- 3D SOLIDWORKS

For more information, visit:


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**NVIDIA GRID-ENABLED OEM PLATFORMS:**

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