

Deliver the Ultimate VDI User Experience

Teradici PCoIP® Hardware Accelerator + NVIDIA GRID™ vGPU™



"When IT added the PCoIP Hardware Accelerator and NVIDIA GPU to the server, the user experience was amazing. We now have true anywhere access to all of our department applications, and are no longer limited by data center walls or campus boundaries."

ANDRÉ KREFT
MANAGING DIRECTOR
FACULTY OF BIOLOGY
UNIVERSITY DUISBURG-ESSEN

Meeting the needs of a broader user base

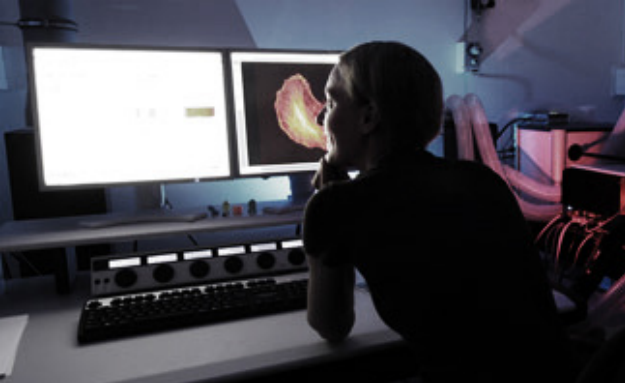
NVIDIA's GRID vGPU technology supported on VMware® vSphere 6.0 enables multiple virtual desktop users to share a single GPU. The solution helps address the needs of a diverse range of users – from everyday knowledge workers to advanced designers – regardless of their preferred client device.

This virtual GPU technology boosts productivity for VMware Horizon™ users, who now receive the best of both worlds: the power of NVIDIA GPUs to deliver high quality graphics across various devices and locations, and the resources needed to perform their tasks. Plus, IT benefits from greater scalability, allowing for high frame-rate, high-resolution, OpenGL and DirectX 3D rendering to more users by ensuring efficient allocation of graphics resources.

How to achieve the best performance

Successful VDI deployments are not just about graphics rendering and generating more pixels in the data center, it's also vital to be able to deliver the extra pixels to end-points, and meet the increased media processing demand. To achieve this goal, IT departments can leverage the Teradici PCoIP Hardware Accelerator to ensure all pixels generated by the GPU reach the end-point device, without negatively impacting CPU utilization and the VDI consolidation ratio.

Coupling NVIDIA GRID vGPU deployments with the Teradici PCoIP Hardware Accelerator provides extensive benefits for graphics intensive workloads by delivering an outstanding user experience; leveraging hardware acceleration on a dedicated silicon. The card dynamically offloads up to 100 of the most active displays to also ensure compute resources are always used where they're needed most.



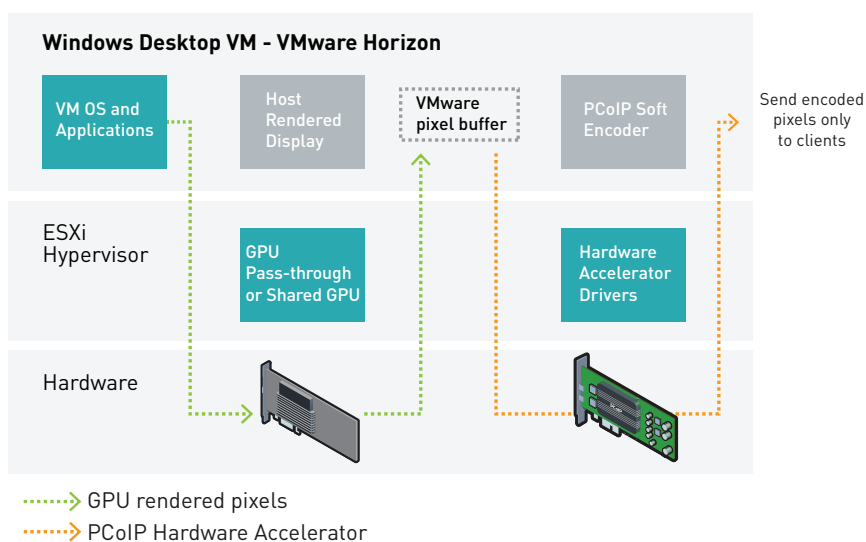
“Capable of up to 300 Million pixels per second (Mpps) of pixel encoding, the Teradici PCoIP Hardware Accelerator was engineered to handle that quantum leap in GPU-generated pixels, at rates a soft CPU-based encoder cannot achieve - ensuring a better user experience at all times. The card complements any GPU deployment including the latest NVIDIA GRID vGPU technology.”

ALEX HERRERA
SENIOR ANALYST, JON PEDDIE RESEARCH
INDEPENDENT CONSULTANT & AUTHOR

The PCoIP Hardware Accelerator and NVIDIA GRID GPU cards utilize different PCIe slots on the server allowing IT to use both cards simultaneously, and garner the benefits of each solution.

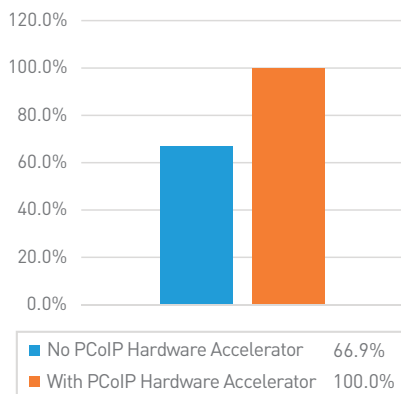
How the technology works together

PCoIP Hardware Accelerator and NVIDIA GRID GPU in a VMware Horizon environment:



Google Earth Test

Normalized Client FPS per CPU Usage



Improves frame rates with less CPU overhead

Google Earth example shows that by adding PCoIP Hardware Accelerator when running an NVIDIA vGPU, the card is able to increase the frames per second delivered per CPU cycle by up to 49 percent.

For more information, visit the following links:

teradici.com/hardware-accelerator
teradici.com/accelerate-video
teradici.com/product-finder/hardware-accelerator
nvidia.com/vgpu

