



Virtualizing Your Design Users: The Facts

Adam Jull – Founder & CEO

The Global Specialists in CAD Virtualization



IMSCAD



- UK based
- Global customer base
- We guarantee performance
- Remote installation + support
- Consulting support

Our business focuses solely on virtualizing CAD/3D apps.

Credentials

- Autodesk cert + channel
- Citrix/VMware capable
- NVIDIA GRID testing
- OEMs (HP/Intel/IBM)



Many 3D apps tested and deployed
Over 500x deployed solutions

Design & IT Challenges

Many 3D Applications

Huge Files/Data

Collaboration

**Reduce hardware
footprint**



Virtualization

Centralized

Management

Mobility

Security



Solution stack



NVIDIA®

Citrix + NVIDIA GRID

VMware + NVIDIA GRID

one size does **not** fit all

vGPU or GPU pass through?

Depends on the mix of Applications

KPF Architects

- **Global business with over 600 staff**
- **300 CAD users (NY/UK/China)**

Challenge - To not purchase anymore CAD workstations and to provide staff mobile working, accessing systems/designs remotely, on any device and deliver real performance.

Solution - Cisco UCS, NVIDIA GRID K1s & K2s, Citrix XenDesktop 7+, delivering XenApp published desktop.

Apps – Revit, AutoCAD, Microstation, Rhino, Adobe CS5, Sketch up, MS Office.

Outcome

Staff mobility + flexible working (even on a plane!)

Fantastic ROI vs traditional desktops

ESA Engineering

- **Civil engineers with over 350 staff**
- **multiple offices across US and diverse technical specialties**

Challenge - To deploy new site offices quickly and to enable workers to edit/see designs while on-site. Reduce overall IT support costs.

Solution - Dell R720 servers, NVidia Grid K1/K2, Citrix XenDesktop 7.5 + Netscaler.

Apps - ACAD Civil 3D, ACAD, ACAD Map 3D

Outcome
Reduced IT management + Sped up deployments
Empowered mobile workers

M+W Group

- A German based global business multi-disciplined
- M+W Group have offices globally with over 7000 staff

Challenge - To centralise all IT in Germany giving remote access for staff across Europe/US real performance.

Solution - HP servers, NVidia Grid K2, Citrix XenDesktop 7 + Netscaler.

Apps - Revit, Navisworks, ACAD, Adobe Pro and MS office

Outcome

Delivering graphical and application performance across Europe/US from central .

Design IP protection was key.

It's all about the Apps!

- AutoCAD
 - AutoCAD Civil 3D
 - Revit
 - Inventor

 - Projectwise
 - Microstation

 - Solidworks
 - Catia
- + many 3rd party software plug-ins



Summary

- Citrix/VMware + NVIDIA GRID is the best solution for virtualizing CAD/3D Apps
- 20-30x CAD users per physical server (GPU sharing).
- 16-32x vGPU VDI per physical host.
- Always be clear of what you want to achieve
- Manage customer/user expectations.
- Always run a POC.
- Try our demo servers out.

Any questions?



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