NICE DCV is commercially supported software that delivers efficient and optimized remote access to graphic-intensive, off-the-shelf 3D applications running on both Windows and Linux desktop environments, including major CAD, CAE, Petro-technical, medical and scientific visualization software. It is the first product on the market to allow sharing of a single physical GPU between multiple Windows and Linux sessions, while maintaining full graphic acceleration and workstation-class performance: this makes DCV the ideal choice for remote working and collaboration, allowing a better utilization of available hardware resources enabling an efficient and responsive 3D Cloud experience.

How remote visualization works

In a typical 3D visualization scenario, a software application uses local resources (CPU, memory, etc.) and sends a stream of graphics commands to a graphics adapter (GPU) installed on the workstation. The GPU renders the data into pixels and outputs them to the local display.

With NICE DCV, all applications run natively on remote hosts, which may also be consolidated and virtualized. The native GPU driver renders the scene geometry and graphics state on the remote physical GPU, and pixels are compressed and sent over the network to the local display.

The resulting pixel stream can be encrypted and distributed to multiple clients, to ensure secure real-time collaboration, and the compression ratio can be dynamically adapted to get the best experience on any network speed.

Hot in NICE DCV 2013

- Support for latest NVIDIA® Kepler cards
- Integration with NVIDIA® Grid API
- OpenGL® 3.x and 4.x
- DirectX® 9, 10 and 11
- Improved codecs’ performance
- Support for IPv6
- Simplified installation

Top 5 reasons to use DCV

- Do network or hardware limitations slow down engineering work on the workstation?
- Did you try running 3D applications from a remote server, but performance was poor?
- Software distribution to workstations is too expensive and time consuming?
- Do you need to collaborate on 3D data, and did not find an effective approach yet?
- Do you need to secure and protect your design data?

Category | Business Benefits
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User Productivity | • Increase user productivity on heavy applications, large datasets
| | • Enable access to central resources by remote workforce
| | • Improve team performance enabling real-time collaboration
Business Continuity and Mobility | • Protect users and data from failures of the workstation
| | • Enable right-sizing and scaling of the visualization resources “on-demand” in the Private or Public Cloud to match business needs and reduce upfront investments
| | • Let users work anywhere over standard, secure TCP/IP connections
Security | • Secure access to centralized resources
| | • Share pixel, not data
| | • Allow collaboration with partners while protecting Intellectual Property
IT Savings and Manageability | • Defer investments on networking improvements
| | • Reduce IT costs by consolidating workstations into centralized resources
| | • Extend life of existing workstations
| | • Save money and time on application deployment and upgrades

DCV EndStation
DCV Server
Key features of NICE DCV

- Connect to Linux and Windows remotely with a single client
- Full GPU acceleration for off-the-shelf OpenGL and DirectX applications
- Support for Virtualization of Windows sessions, with or without GPU pass-through driver
- Node and GPU sharing across multiple users
- Dynamic quality adjustment to maximize frame rate in motion
- Session sharing to enable collaborative working with responsive 3D experience
- Bandwidth usage and frame rate monitoring
- Encryption using the standard AES algorithm (128 or 256-bit)

More from NICE

NICE is a pioneer in Technical and Engineering Cloud solutions, delivering products and services to hundreds of customers worldwide, including many Fortune 2000 customers in Automotive, Aerospace, Oil & Gas, Pharmaceutical, Government and Education markets.

NICE DCV is perfectly integrated into NICE EnginFrame Views to provide 2D/3D session management over the Web, including the ability to share an interactive session with other users for collaborative working. When coupled with EnginFrame HPC functionalities, engineers benefit of user-friendly, Web-based experience across their complete design workflows, including state-of-the-art data and job management.

For more information, please visit our Website at http://www.nice-software.com

Supported platforms

**Windows**
- Microsoft Windows 7 - 32/64 bit
- Microsoft Windows XP - 32/64 bit
- Microsoft Windows Server 2008 R2 (single user only)

**Linux**
- Redhat Enterprise 5.x - 32/64 bit
- Redhat Enterprise 6.x - 32/64 bit
- SUSE Enterprise Server 11 - 32/64 bit

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