

Smarter creates the future

RiVA

RiVA Solution: The industry's highest performant platform for Geoscience workflows.



Lenovo

Built for the Oil & Gas Industry

Game Changing Performance, Reliability, and Efficiency

GeoComputing Group® is a leading vendor in highly specialized petro-technical solutions, with expertise across the entire Exploration and Production (E&P) lifecycle. Within the industry, they are unique in working across infrastructure, science, data, and applications, collaborating with NVIDIA® to provide plug and play NVIDIA RTX™ Virtual Workstation (vWS) for the most demanding oil and gas workflows.

Challenge:

40% Geoscientists typically spend up to 40% of their time loading and processing data.

This is a huge expense in lost productivity. The RiVA platform reduces this number dramatically, with desktop read/write speeds of 3.5GB/sec. on Windows and 5.5GB/sec. on Linux. Compared to the typical performance of 40-80MB/sec. RiVA is unmatched in user experienced true performance.

Delivering an uncompromised remote workstation experience:

In an ever changing world, industry professionals are becoming more dynamic. Project teams are greatly dispersed, security risks are on the rise, datasets are constantly growing, and heavy NVIDIA® GPU accelerated software applications are fast becoming the norm—demanding more and more compute power at the desk as well as on the go.

GeoComputing has developed a Remote Visualization Server (RVS) Module that integrates all complex components, including hardware, software, and services, to provide a comprehensive and performant way to deploy petro-tech VDI desktops.

RiVA PLATFORM

RiVA is a high-performance computing platform that has embedded storage with a shared parallel file system. Workstation performance will improve dramatically compared with what you currently experience.



High-Performance
Ethernet Network



Virtual Server
Estate



High-Performance
Parallel Storage
Engine



InfiniBand
Network for
Data Transport



High-Performance
Workstations



Applications
Installed and
Configured

Benefits of RiVA Solution for Your Oil & Gas Environment



Increased Productivity

Faster performance enables quicker completion of workflows, allowing for more time in the data to make better decisions. For the business, this means faster time to first oil and lower business risk.



Return on Investment (ROI)

Achieve 100%-400% ROI by providing a more efficient work experience for your Geoscientist.



Remote Virtual Workstation

RiVA assures continuous output from any place, at any time, for anyone. We deliver a turnkey, fully supported stack with all petro-tech applications and data.



Increased Security & Support

With a centralized compute model, all applications, data, and intellectual property are secure in your data center. Centralizing the system simplifies the operations support.

Delivering an End-to-End Professional Oil and Gas Solution

Combining high quality, enterprise class products from Lenovo and NVIDIA with GeoComputing's industry leading solution empowers geoscientists with the tools to succeed, whether fully remote or in the office.

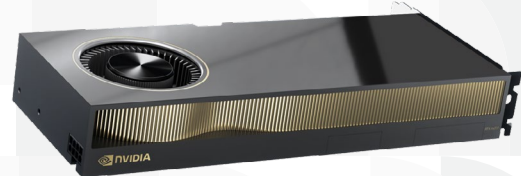
Lenovo Hardware Components

- ThinkSystem SR630
- ThinkSystem SR650
- D3284 Direct Attached Storage (DAS)
- D1224 Direct Attached Storage (DAS)



NVIDIA Hardware & Software Components

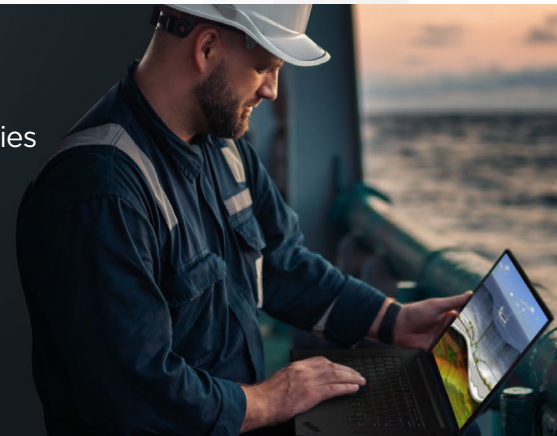
- NVIDIA RTX™ Family GPUs
- NVIDIA RTX™ Virtual Workstation
- NVIDIA InfiniBand High Speed Networking



Our mission is to help our customers and partners create the highest value solutions possible leveraging the world class technologies created by NVIDIA. The RiVA platform with integrated NVIDIA GPUs and Networking has received incredible customer satisfaction in the energy sector for deployments of virtual workstations for large datasets and graphically intensive workflows. When it comes to remotely hosted Geoscience and Engineering applications, RiVA delivers on the promise of high performance wrapped with industry specific support.



- Marc Spieler, Global Business Development
Energy Industry for NVIDIA



Lenovo

