

OIL & GAS CASE STUDY



Perseus GPFS Software-Defined Storage Ideal Solution for Seismic Data Storage

*Advances in seismic data acquisition..powered by high-performance computing..are at the forefront of improved reservoir imaging.**

Client Profile

One of the **largest seismic research companies in the world** was in the process of a tech refresh for their data storage. They tasked RAID, Inc. with guiding and implementing the refresh, which was critical to the company remaining an industry leader. RAID's reputation, combined with our Perseus offering - a fully customizable, scalable software defined storage solution - made us a perfect partner for the project.

Examination of Current Environment

RAID, Inc. first deployed its [proven development process](#) to analyze each component of the existing environment. which already included over **5,000 compute nodes**. Thanks to deep experience in the Oil & Gas industry, the team already understood that the client required not only very dense storage systems, but systems that provide the proper balance between streaming sequential data and rapid random I/O to reduce overall cycle times.

Solution Development & Testing

RAID's experts examined tradeoffs between the performance, functionality, and usability of various high performance storage options before deciding on **Perseus as the best solution**. Perseus offers a building block approach, using standard commodity hardware, and implements important storage and management functions such as ILM, disk caching, snapshots, replication, striping, and clustering via intelligent software.

Results

RAID delivered a Perseus system fine tuned to the existing system, and fine-tuned existing networking infrastructure and compute nodes to operate optimally with Perseus. After the client ran the applications and was satisfied with the performance, they began a worldwide rollout, purchasing over **8 PB of storage**. Eight months after the initial rollout, they purchased another **4.5 PB of storage**.



STAY IN TOUCH WITH US

CONTACT US WITH YOUR QUESTIONS OR COMMENTS



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