



Enabling Data Management for Oil and Gas with High- Speed Seismic Data Transfers

AT A GLANCE

Industry

Oil & Gas

Products

Aspera Embedded Client
Aspera Connect Server
Aspera Proxy
Aspera SDK

Challenge

Integrate an all-purpose file transfer solution to exchange multi-terabyte seismic data files with customers as well as replicate files between internal sites for disaster recovery.

Solution

OvationData selected Aspera's FASP technology to receive files from customers, replicate data between sites, and integrate high-speed transfers into their web-based delivery application.

Results

- OvationData transfers hundreds of terabytes each week between internal sites.
- OvationData guarantees files will be delivered to customers before SLA deadlines thanks to high-performance, predictable transfers from Aspera.

OvationData is the global leader in data management solutions for top companies in the Oil and Gas industry. The services include data storage, full data lifecycle management, and the restoration, migration and preservation of oil & gas exploration data from legacy media, including vintage 7, 9, and 21-track tapes.

OvationData has integrated Aspera as the high-speed transfer backbone to their entire data management system. Aspera is used to receive any digital-form raw data from the customer and to return processed data to the customer, as well as internally to replicate data between offices for disaster recovery purposes.

CHALLENGE

Notable advancements in seismic technologies and techniques in recent years have spurred the transformation of seismic data acquisition, and as a result, Oil and Gas companies have seen the volume of seismic data explode. Seismic and well log data can reach substantial sizes, particularly for files generated by highly advanced, modern technologies such as 5D interpolation, which can produce file sets that exceed 100 terabytes in size.

To accommodate a vast and ever-increasing

volume of digital data from their customers, and satisfy the SLA deadline requirements they have committed to their customers, OvationData needed to move these very large files as efficiently as possible between their customers and their Texas and London-based offices. Adding to the challenge, customers needed to send in files from distant locations including exploration sites with poor infrastructure and network conditions.

“Aspera has made my delivery model much safer, more streamlined, and more efficient.”

 **Billy Long**
Account Manager, OvationData

OvationData needed a high-performance transfer solution that could sustain high speeds even for the largest seismic files and over the worst network conditions. Plus, security of the transfer protocol was a primary concern. OvationData's customers sell and lease data to their own customers; these one-of-a-kind seismic and well log data sets are extremely valuable – often worth millions of dollars to upwards of a billion dollars – and leading Oil and Gas companies trust OvationData to keep this business-critical data safe.

BENEFITS

Fast transfers: With Aspera, OvationData achieves maximum speed transfers to and from customers and between internal sites, regardless of file size, transfer distance or network conditions.

Robust and reliable: Aspera achieves reliable seismic data transfers from remote sites, even over unreliable wireless networks with automatic resumes of partial transfers and retries of failed transfers.

Complete security: Aspera's enterprise-grade security package features built-in user authentication, encryption in transit and at rest, and data integrity verification for each transmitted block, protecting valuable seismic data files throughout the transfer process.



ABOUT OVATIONDATA

OvationData is acknowledged as the world's leading specialist in tape transcription, data recovery and all forms of digital data management; with particular focus on data preservation and data storage services. Where there is a need to maintain continued access to valuable data assets held in storage, OvationData can assist with specialized and bespoke data migration, data recovery and data management solutions. OvationData has more than a quarter of a century of experience in legacy, archive and backup data migration, preservation, recovery and conversion; providing powerful, cost-efficient solutions globally – from and to any format and any media type.

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SOLUTION

OvationData deployed Aspera as their all-purpose transfer solution, using Aspera's patented FASP technology to move data to and from customers and internally to transfer data between offices for full data replication.

For basic transcription projects, the workflow begins with the arrival of a shipment of tapes, which are then scanned in and treated if they're sticky – a common occurrence as this aging technology begins to deteriorate – then OvationData runs, processes and reformats them. Customers with digital files can now send in their large seismic data sets to OvationData's offices using a high-speed Aspera FASP transfer.

To deliver output files to their customers, OvationData launched a new online tool and integrated Aspera as the download delivery method. The web platform enables customers to browse through metadata, select the files they want and add them to a virtual shopping cart, and initiate a high-speed Aspera download to pull data from OvationData's near-line storage and deliver it the customer. Plus, OvationData's customers can elect to share files for sale or lease with their own customers using the web platform with embedded Aspera transfer technology.

“No other solution can deliver this level of transfer performance with the reliability and security that Aspera does.”

 **Billy Long**
Account Manager, OvationData

RESULTS

With high-speed transfers from Aspera, OvationData is able to move hundreds of terabytes of data weekly between internal offices for disaster recovery and replication, and equally large transfer volumes for file ingest and delivery to customers.

Aspera's bulletproof security package protects valuable digital assets with encryption in transit and at rest, data integrity verification for each transmitted block, and user authentication.

“Aspera has made my delivery model much safer, more streamlined, and more efficient,” said Billy Long, Account Manager at OvationData.

OvationData's unparalleled knowledge and experience with petroleum-specific data management supported by high-speed transfers from Aspera provides customers with powerful solutions to the greatest challenges facing Oil and Gas companies today.

“Aspera maintains fast speeds for large seismic data transfers across the world, even from distant exploration sites with the worst network conditions,” said Long. “No other solution can deliver this level of transfer performance with the reliability and security that Aspera does.”

About Aspera

Aspera is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented FASP™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

Learn more at www.asperasoft.com