

ProSource Seismic

Seismic data management for the complete information life cycle

KEY BENEFITS AND FEATURES

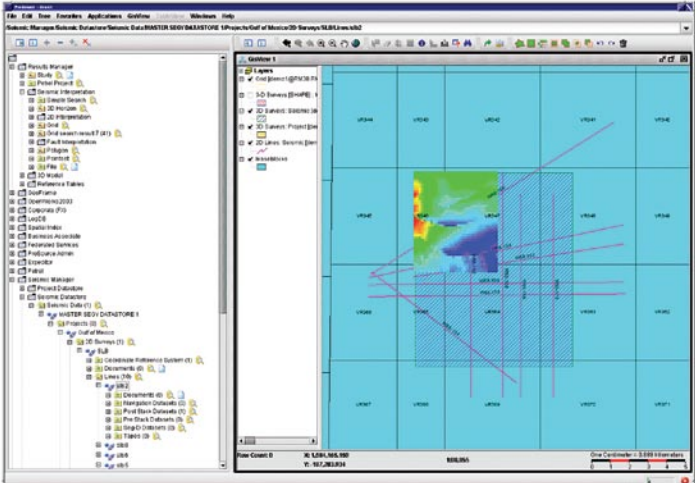
- Browse, select, and use your seismic assets throughout the entire seismic data life cycle, from field data through interpretation project data
- Scan, catalog, load, and create a live trace geographic information system (GIS) representation of the Petrel* ZGY format
- Quickly identify available and overlapping data through automatic scans of interpretation projects
- Gain fast, intuitive access to all seismic data in multiple formats
- Access multivendor project environments for leading interpretation systems, including copying, scanning, and offloading functions
- Enjoy simplified data cleanup and navigation matching and ensure a more efficient and accurate input process through automated editing, quality control, and loading tools

RECOUP INVESTMENT WITH INFORMED DECISIONS

How many times have you purchased the same dataset because you could not locate it? Are there existing interpretations in your geographic area of interest? How can you rapidly load and compare multiple interpretations in an application? Can you find the field data for the seismic survey you need to reprocess? Answer these questions quickly with ProSource* Seismic and recoup your investment with a single informed decision.

Imagine that your company has just gone through a merger and you are in charge of evaluating the company's key prospect to decide where to deploy an already leased rig by the end of the week. You are not sure what data is available, what data has been interpreted, and whether overlapping interpretations already exist. You also need to know if prestack or field data are available, as reprocessing and depth imaging are required to continue field development. Further complicating matters, the two merged companies use different interpretation systems.

ProSource Seismic data management is designed to solve these problems as well as many other seismic data management challenges. The system accesses seismic interpretation projects from multiple vendors simultaneously and creates a common map representation that shows live trace locations of all available



The ProSource Seismic interface allows users to customize their display to include a variety of objects, including directory tree, map legend, thumbnail, and full view.

project data. The attribute database catalogs and maintains documents and other supporting information.

MANAGE DATA THROUGH SINGLE INTERFACE

ProSource Seismic manages all forms of seismic trace and supporting data through a single interface (map- or tree-based). Interpretation project management for single or multivendor environments is supported by advanced tools to load, quality-control, and transfer data between projects. Other functions include a comprehensive system for managing field and processed data, complete with GIS tools and the powerful, open Seabed* advanced E&P datastore. The data model enables you to store attributes from and integrate with information, data, and products from other E&P domains.

ProSource Seismic has these additional key capabilities:

- scans, edits, and loads SEG-Y and navigation
- scans, edits, and loads seismic data to the Petrel application
- scans and loads SEG-A, B, C, and D field and prestack SEG-Y formats
- quality-controls and edits headers
- transforms and reprojects coordinates
- loads seismic data to and among multiple interpretation systems
- selects and cuts data volumes based on specific geographic limits
- exports data to local or remote locations.





ADVANTAGES

Interpretation project scan

- Uses interface to scan and spatialize GeoFrame* and SeisWorks® interpretation projects and SEGY volumes

ProSource framework

- Displays a tree view, GIS, or table view and compares data between various source databases using the common ProSource framework and user interface

Seismic trace scan/edit/load

- Scans, quality controls, edits, and loads pre- and poststack seismic data into the seismic datastore using graphical and textual tools

Navigation loader

- Loads multiple navigation formats by template definition

Simple data sharing

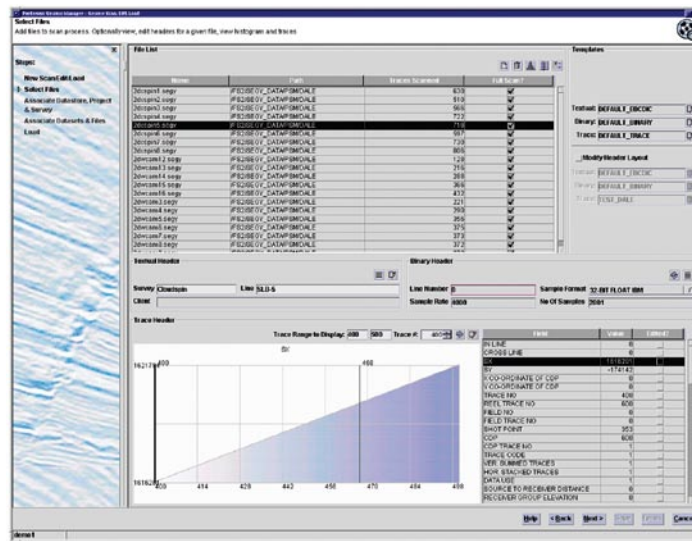
- Loads and exports trace data to and from interpretation projects and SEGY files through a single intuitive workflow

Data entitlements

- Hierarchical data entitlement system allows you to define secure access rules for entire surveys, individual lines, or selected datasets

Spatial entitlements

- Allows access security rules to be defined for geographical subsets of seismic volumes



SEGY quality-control and edit tools, such as the graphical header edit and histogram displays, provide a more efficient path to accurate archives.

CREATE THE SOLUTION WITH TARGETED TOOLS

A major client recently used ProSource Seismic to move SeisWorks projects with 60 classes of data (more than 14 million traces) to GeoFrame integrated reservoir characterization applications with minimal manual intervention. ProSource Seismic allowed a user with no experience in SeisWorks applications to perform the migration in 2 days—compared to 7 days using conventional tools—while reducing the risk of human error.

ProSource Seismic offers tools that allow you to

- load, edit, and quality-control SEGY and navigation data from the original source
- populate the open Seabed database with seismic-related metadata, including spatial information

- scan SeisWorks and GeoFrame projects to create live trace displays
- browse and select related metadata—GIS-enabled
- extract and select polygon selections that are not limited to specific inlines and crosslines
- move seismic data to and from SEGY and interpretation project environments
- output selected seismic data via disk, tape, or electronic delivery
- manage all common seismic data types including field formats SEG A, B, C, D, and prestack SEG Y data
- use GIS and ProSource compare tools to reconcile data between interpretation systems, SEG Y, and master datastores.

BENEFIT FROM CROSS-DOMAIN ACCESS

ProSource Seismic benefits from the cross-domain access capabilities of the ProSource family of products. Logs, seismic, drilling, production, and results data may be consolidated into a common view in which comparisons and modifications can be made. Common components include the ProSource framework, the open Seabed database, the ArcSDE® geographic engine, OpenSpirit®, and the Oracle® database.

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