



# Project Archive and Retrieval System

For rapid near-line knowledge solutions.

Because what you know is what you're worth.™



**ENIGMA**  
DATA SYSTEMS

# PARS

## The Key to Your Business — Your Knowledge

*Post-stack 3D seismic. Velocity analyses. Migrated sections. Specialty processing. Earth models. Interpretations. Maps. Plots. CGM. Petrophysical data. Well logs. Mud logs. Drilling reports. Production data. Engineering designs. Databases. Contracts. Memos. Digital video and audio. Who knows which projects and data will prove vital months or years from now?*

Earth knowledge increasingly drives E&P performance, productivity and profitability. With budgets tight, hiring tough and competition fierce, asset teams must focus more than ever on generating value, *not chasing data*.

But how do you give teams quick access to project data — all types and formats — without tying up terabytes of disk? Enigma has deployed remarkably effective solutions in dozens of large and midsize E&P companies worldwide — solutions based on PARS technology.

### GIVE TEAMS QUICK ACCESS TO ALL DATA WITHOUT TYING UP TERABYTES OF DISK

The E&P data explosion threatens to overwhelm many organizations. E&P sites often must manage two to four terabytes of interpretation data sets alone. That doesn't include all other types of subsurface data and related information. At many sites, everything gets dumped on disk because asset teams can't wait hours or days to retrieve data from offline archives. Whether storage is online or off, project data are sometimes lost — mislabeled, misplaced or erased — depriving asset teams of vital clues to more effective drilling and production.

Chasing data squanders geoscientists' time and effort, hampering workflow and eroding E&P performance. At the same time, dumping data onto disk ties up online storage. Disk farms proliferate; the cost of managing and maintaining them soars.





# PAIRS

## Project Archive and Retrieval System

Put your disks back to work.  
And focus your teams on *their* work.

Organizes files by user-defined projects

Users point and click to store and retrieve

Transparently tracks and manages files

Embraces all file types and data formats

Works with complex geoscience applications

Ties into rapid access near-line storage  
(avg. 22 sec.)

Offers high speed backup

Scales to unlimited capacity

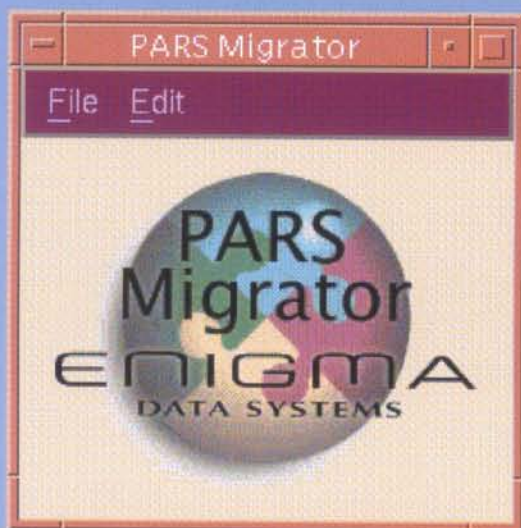
# MIGRATOR

## Breakthrough: Automated Project Migration

The most powerful way to save disk space while keeping project data near at hand.

- ¥ Recoups 25% of your disk space — instantly.
- ¥ Ends bickering and delays by automating intelligent decisions.
- ¥ Enables HSM with entire project filesets.

Migrator, an option available with PARS,™ does for complex project data sets what HSM does for individual files, only better. It automatically migrates projects according to rules you specify — while keeping stubs and pointers on disk. And with rapid near-line Enigma solutions, users barely notice the difference.



## RECOUP 25% OF DISK SPACE — INSTANTLY

Why spend big dollars for more disk when you can reuse what you already own? Typically 25% or more of geoscience disk space gets hogged by dormant projects or low-priority data. Or both.

Embedded within PARS, Migrator makes all the deadwood disappear from disk literally overnight, reclaiming a huge amount of expensive disk. Yet all data are preserved for quick retrieval.

## COST SAVINGS ESCALATE

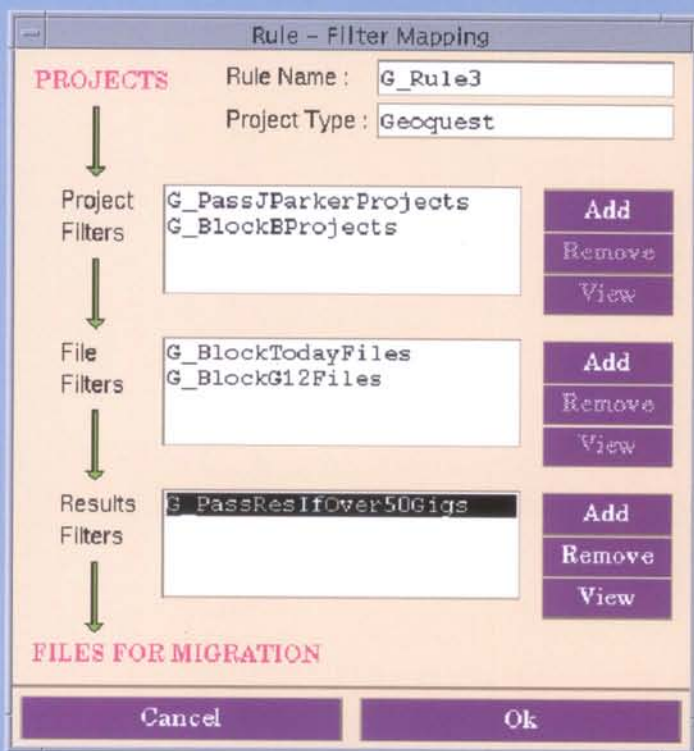
As projects are acquired and data sets added, Migrator continues cycling older, less-used data off disk to rapid near-line storage. Instead of buying disk, you buy high capacity, high speed tape at negligible cost.

And because migration is automated, you can reassign a full-time data administrator to other tasks.

## NO MORE HASSLES

Migrator is a win-win for users and you. An automated arbiter, Migrator eliminates time-consuming hassles over project data storage. There's no more bickering over unproductive disk space that others urgently need.

Learn more about PARS Migrator by calling Enigma or visiting [www.enigmadata.com](http://www.enigmadata.com).





## FOCUS YOUR TEAMS...

PARS / Project Archive and Retrieval System ends the data chase. PARS thinks the way your asset teams do, letting scientists store and quickly retrieve all data by project. No matter how teams categorize information, PARS models it. No matter how files are formatted, PARS transparently accommodates them. And users themselves define which data comprise a given project.

Even after filenames have long been forgotten, PARS lets users retrieve project data with a single click. Users can access large sets of loosely related project data as easily as clicking on a map browser.

## ...AND FREE UP YOUR DISKS

PARS integrates transparently with IDS,<sup>TM</sup> the Enigma front end for the world's fastest near-line storage systems. (Full-cycle access times average 22 seconds or less.)

Suddenly, terabytes of data can stay on hand while going off disk. This frees online storage to manage current projects, eliminating the need to buy, manage and maintain increasing amounts of disk. With IDS, PARS scales to virtually unlimited storage capacity.

## WORKS WITH COMPLEX GEOSCIENCE APPLICATIONS

In some applications and environments such as Landmark OpenWorks, SeisWorks and ProMax, the application database determines project data storage locations. By emulating disk, PARS interworks seamlessly with such environments; the application never knows it is interworking with PARS.

By transparently interrogating an application, PARS collects the file list and database pointers. As a result, PARS can archive global (shared) data and project-specific data spread over several file systems on the server.

Further, the PARS Migrator<sup>TM</sup> option intelligently automates disk management decisions, enabling entire project filesets to be migrated as part of a total HSM solution.

## PERFORMS HIGH SPEED BACKUPS

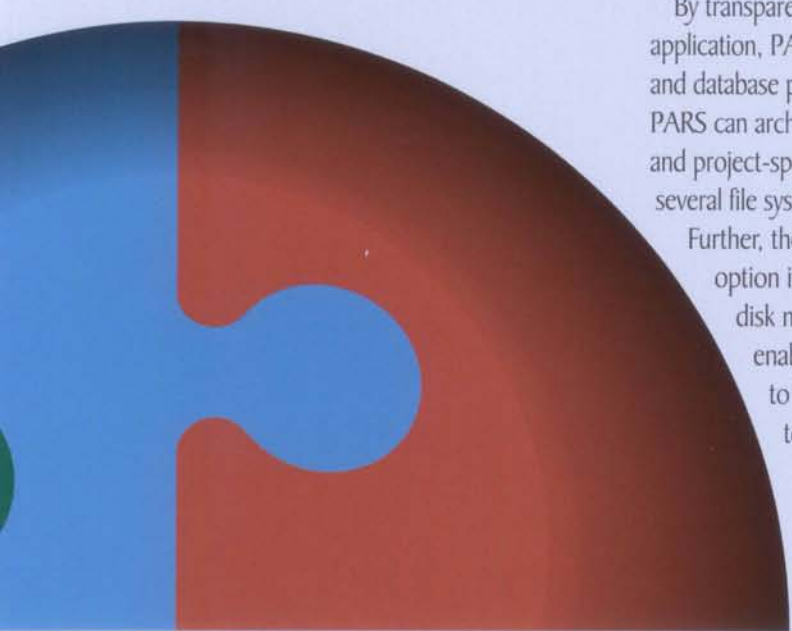
If you want, PARS readily backs up your disks on a daily, weekly and incremental basis. From a simple menu you can choose project-specific or general filesystem backup. Also, PARS can readily interwork with VERITAS NetBackup to give you a range of general and project-specific backup strategies within Landmark environments.

## PROVEN PERFORMANCE

Dozens of sites, including major and national oil companies, preserve data and reduce costs by relying on PARS and Enigma solutions. Our installed base ranges across North America, Europe, the Middle East, Far East, Africa and Australia.

## DISCOVER THE POWER

Visit [www.enigmadata.com](http://www.enigmadata.com) or contact an Enigma representative. We'll gladly demonstrate how PARS and Enigma's high capacity, high performance solutions put your disk resources back to work. Preserve strategic knowledge. And free your asset teams to focus on producing value — instead of chasing data.



Chelsea House 8-14 The Broadway Haywards Heath  
West Sussex RH16 3AP UK  
Tel: +44 (0) 1444-476-500  
Fax: +44 (0) 1444-476-501  
sales@enigmadata.com



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[www.enigmadata.com](http://www.enigmadata.com)

16000 Barkers Point Lane, Suite 202  
Houston, Texas 77079 USA  
Tel: +1 281-497-0440  
Fax: +1 281-497-0402  
sales@enigmadata.com