

Intelligent Data Store

For rapid near-line knowledge solutions.

ENIGMA
DATA SYSTEMS

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

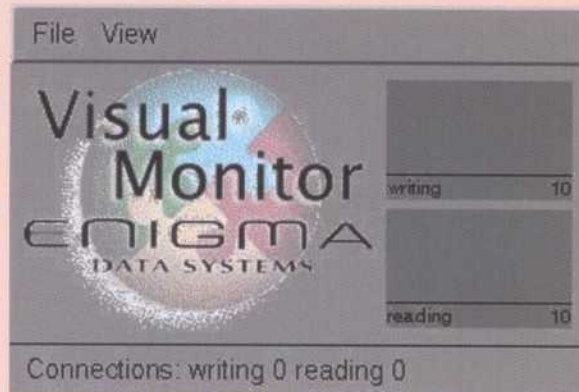
Intelligent Data Store

IDS

Get Terabytes of Rapid Access Storage At Last, Without Terabytes of Disk

It's a chronic dilemma. You acquire, manage and maintain terabytes of disk — or your asset teams must wait hours or days to get data archived offline. As data quantities rise, disk farms grow and ownership costs soar; many sites already average two to four terabytes on disk. And because earth knowledge drives project economics, data must be saved indefinitely. The result: data on disk proliferate with no end in sight.

IDS — Intelligent Data Store from Enigma — propels you out of the data dilemma. With IDS software, you keep project data on hand but off disk. As a front end for the world's fastest near-line storage systems, IDS delivers full cycle access times averaging 22 seconds or less. It also interfaces with any high speed, high density SCSI tape drive or storage system.



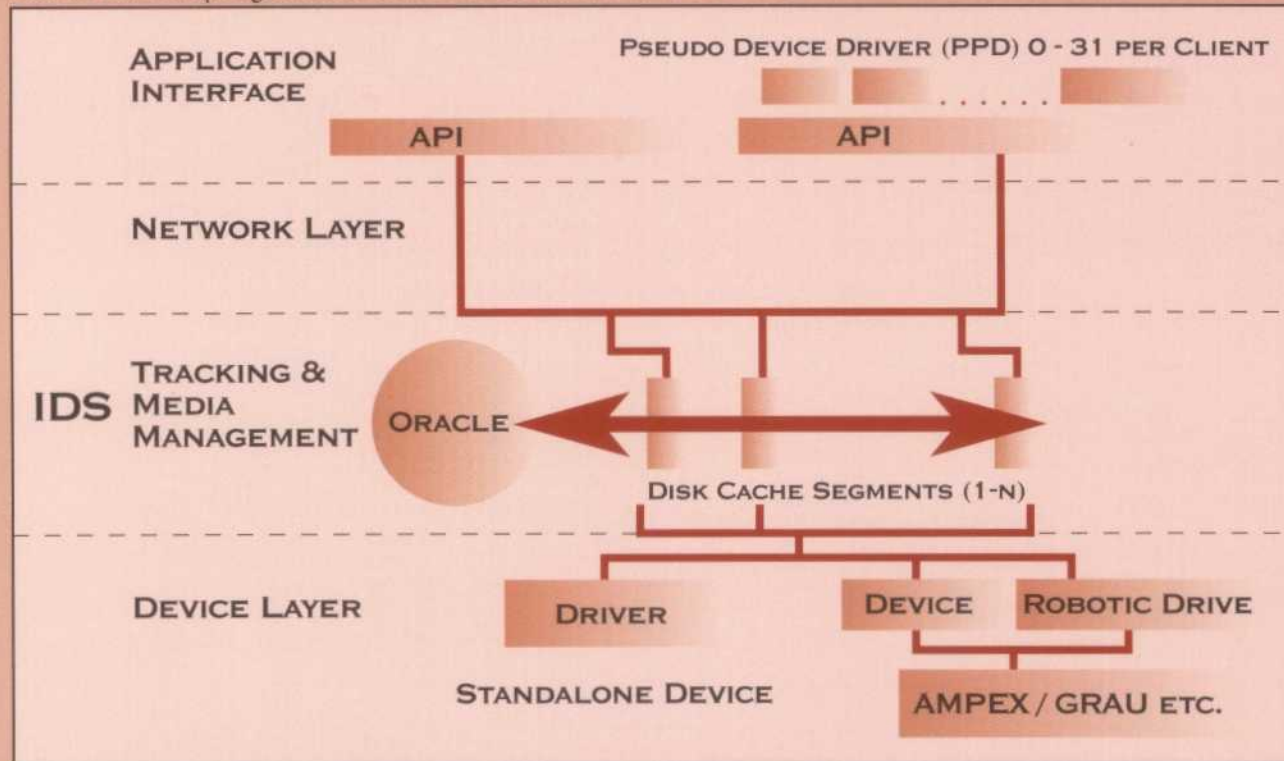
READILY GROWS WITH YOUR DATA

Although IDS works with any storage device, it is optimized for ultra-fast Ampex DST[™]-series DD-2 robotic systems with retrieval speeds that nearly rival disk and capacities ranging from 5.8 to 100+ terabytes. A small, compact Ampex robotic unit stores 5.8 terabytes on 50 GB tape within a 7.5 ft² (0.7 m²) footprint. And IDS can transparently link multiple Ampex units. As a result, Enigma storage solutions scale to virtually unlimited capacity.



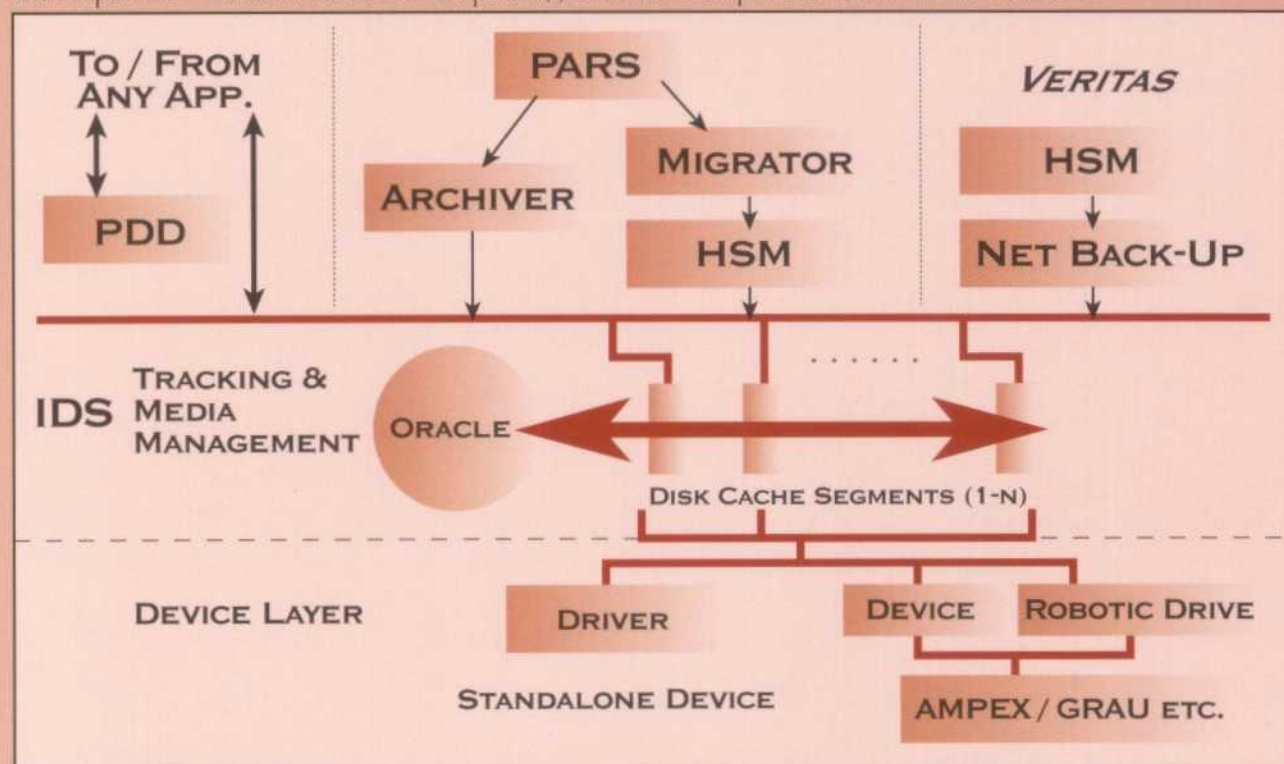
IDS ARCHITECTURE

Flexible, High Capacity Solution. Residing on a server, IDS software mediates between client systems — ranging from workstations to large servers — and one or more high capacity data storage units. By caching data on multiple disks, IDS gives users concurrent access. The Pseudo Device Driver™ (PDD™) enables even the most complex geoscience environments to interact with the IDS API.



TOTAL STORAGE SOLUTION

Reduces Data Management And Storage Costs. At your option, IDS integrates with PARS™ / Project Archiving and Retrieval™ software, Migrator™ project-level HSM software, optional third-party data management utilities and Ampex® DST® ultra-fast robotic DD-2 tape unit(s) to deliver a comprehensive, cost-effective solution.



Intelligent Data Store

More Data, More Disk? Not Anymore.
Preserve all the knowledge in your data — and retrieve it fast.

Near-line solution minimizes use of disk.

Fast data access provides virtual disk performance.

Reduces data management costs.

Boosts asset team productivity.

Preserves all project knowledge.

Gives multiple users concurrent data access.

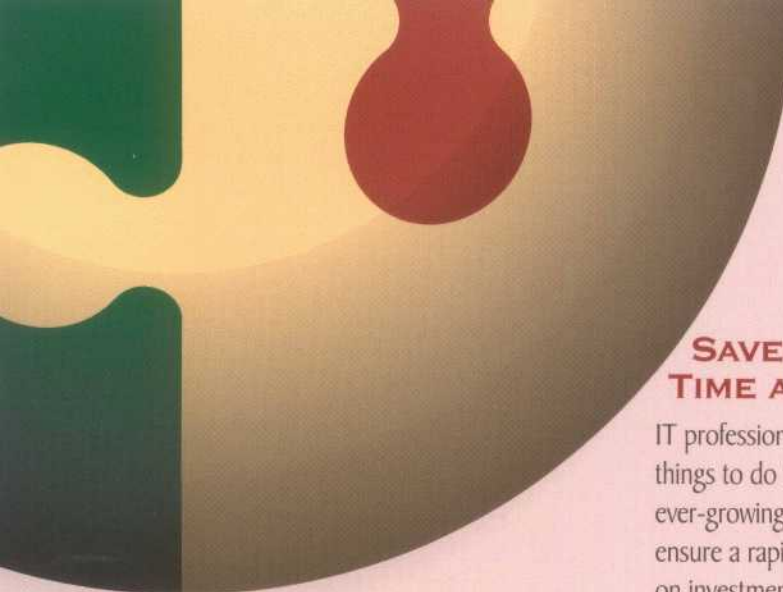
Works with all E&P applications and environments.

Works with all high capacity storage platforms.

Scales to unlimited capacity.

High speed network backup ensures data safety.

Provides vendor independence via open systems.



SPEEDS WORKFLOW, RAISES GEOSCIENCE PRODUCTIVITY

IDS helps focus your asset teams on generating value, not chasing data. At your option, IDS integrates with PARS,TM Enigma's comprehensive Project Archiving and RetrievalTM software solution for storing, tracking and managing E&P project data in multidisciplinary environments. PARS transparently accommodates all data types and formats; users define the files and file groups that constitute a project. If desired, users can access all project data as easily as clicking on a map browser.

SAVES IT STAFF TIME AND EFFORT

IT professionals have more productive things to do than manage and maintain ever-growing disk farms. IT cost savings ensure a rapid payback and high return on investment for Enigma solutions. Higher asset team productivity comes as a bonus.

A typical IDS configuration combines unique strengths of tape and disk. Even with a single tape drive, IDS disk caching lets multiple users access data concurrently. Data are cached on multiple disks to leverage high speed read/write and search capabilities. For the first time, ultra-fast robotic tape storage technology working transparently on the back end makes this configuration practical.

IDS works with all applications, even complex geoscience environments that may not cooperate with the IDS API. Enigma provides a universal Pseudo Device DriverTM (PDDTM), allowing complex applications to think they are interacting directly with a local tapedrive.

FAST NETWORK BACKUPS ENSURE SECURITY

IDS doubles as a high performance facility for scheduled backups, cutting network backup time from days to hours. Frequent backups and rapid restoration provide quick, painless disaster recovery.

STANDARDS DELIVER OPEN SYSTEMS FLEXIBILITY

Enigma offers complete storage solutions but gives you freedom of choice. IDS is compatible with a wide range of third-party products through standards such as API RP66, SEG RODE, and direct import and export via FileServ.

Also, IDS standards compliance makes it easy to locate project data because users can store metadata plus a rich set of attributes such as owner, source, security, access, and data type. Users can also write tapes directly to RODE and ANSI FileServe format.

THIRD-PARTY PRODUCTS FOR COMPREHENSIVE DATA MANAGEMENT

The team that created IDS also helped develop highly compatible third-party products for preprocessing, demultiplexing and reformatting data, plus tape copying, data recovery and compression — providing E&P sites with complete data management solutions.

PROVEN WORLDWIDE

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

DISCOVER THE POWER OF IDS

Visit www.enigmadata.com or contact an Enigma representative. We'll gladly demonstrate how IDS and Enigma's high capacity, high performance solutions preserve knowledge — and make your asset teams and IT staff more productive — without adding more disk.



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