



Petrotechnical Project Data Management

Keeping It All Together With Interica and Quantum

THE CHALLENGE

Petroleum exploration and production data is hard-won and expensive to collect—it's a valuable corporate asset and must be managed appropriately. Not just parking it on disk somewhere, but preserving it. Preservation means ensuring it's organized, available, accurate, and enduring across time and technology change. Exploration and production projects incorporate data from a variety of sources, different locations, and multiple file types. Without a project-based view it's easy for key data to be orphaned, lost, or unnecessarily duplicated.

Exabytes of this data are archived today on magnetic tape. Tape retains the lowest cost per terabyte of any storage medium, and off-line tape provides unmatched protection from on-line threats. But the higher retrieve latency of tape is not acceptable for some project workflows.

Public cloud storage is an option, but the true cost has more to do with how much data you retrieve, not how much you store. Costs are too high for active data, and hard to predict. Then there are the questions of security and lock-in. Public cloud infrastructures are not without risks.

THE SOLUTION

Interica PARS® and Quantum's Lattus™ object storage system provide the ability to leverage the benefits of cloud technology while avoiding the uncertainties and vulnerabilities of the public cloud. Interica has certified Lattus as an S3 storage target for use with PARS v4.3 and beyond.

Lattus is your private cloud. It's a disk storage system accessed via S3 that resides in your datacenter. Using 10TB low-power HDDs, it cost-effectively scales from 100TB to hundreds of PB. It's a self-healing and self-migrating system—replace failed components on your schedule, and upgrade to new storage technology with no downtime. Fountain erasure coding provides industry-leading performance and up to 15 nines of data durability. Components may be deployed across multiple sites for multi-geo protection.



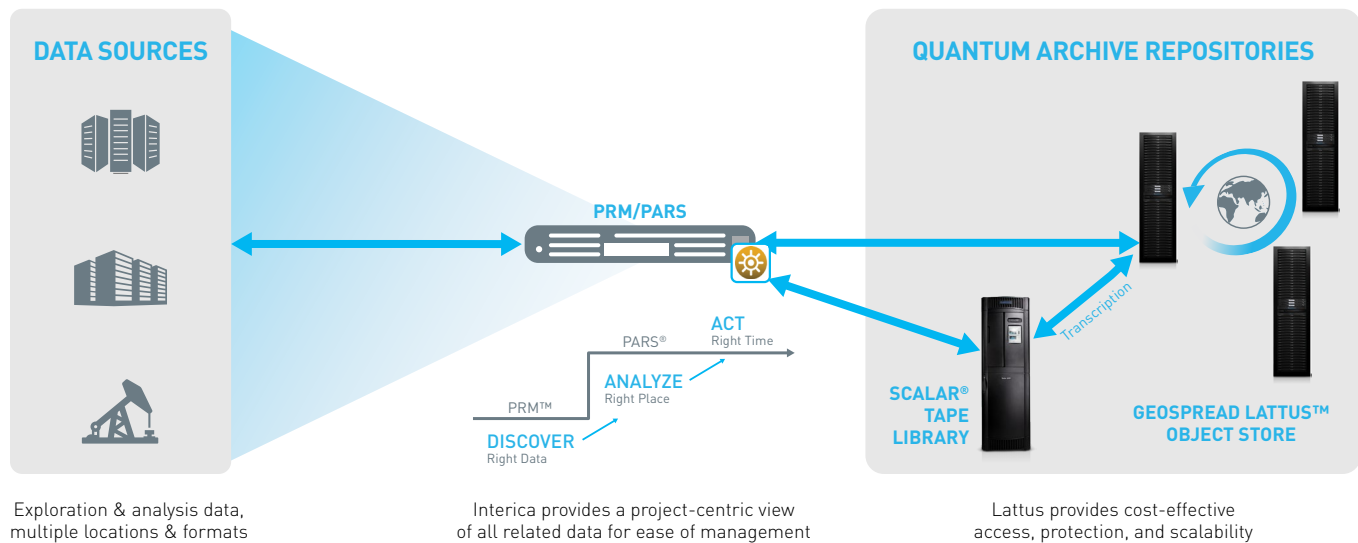
INTERICA

SOLUTION BENEFITS

- **Extreme Scale**
Scale capacity to hundreds of petabytes, with performance to match for many concurrent users.
- **Extreme Durability**
Continuous data integrity checking and self-healing. Resilient against device failure and site disaster.
- **Extreme Safety & Security**
The scalability of public cloud, without the risks and unknowns.
- **Extreme Cost Reduction**
Low, predictable operating costs independent of data access patterns.
- **Extreme Efficiency**
Keep all project data organized and accessible, and clear out the clutter and duplicates clogging up your storage. Protect corporate assets and reduce risk.



Solution Architecture



In combination with an automated tape library such as the Quantum Scalar® series, PARS may be used to migrate or copy legacy tape-based archives into Lattus for more accessible long-term storage. Data already in Lattus may similarly be copied to tape to protect against online threats such as ransomware, or for off-line storage or sharing with business partners.

Trusted by the oil & gas exploration industry for over 15 years, Interica Project Resource Manager™ (PRM) and Project Archive and Retrieval System (PARS) empower a 'Discover, Analyze, Act' methodology for project data management. PRM discovers and interrogates geophysical applications, collects project statistics and metadata, and generates a complete picture of historical and current project data. This provides the ability to manage data across all systems and applications. Time searching for data is reduced, as is governance risk.

PARS works in conjunction with PRM to automate data flows to and from archive, optimizing storage cost and freeing capacity for active projects. PARS Version 4.3 adds support for public and private S3 destinations to its historically strong support of tape and disk storage systems, such as Quantum's Scalar tape libraries and Artico NAS archive.

The combination of PARS and Lattus provides cost-effective organization, consistency, access, protection, performance, scalability, and peace-of-mind for your valuable project data.

To learn more about Interica's PARS intelligent, related data archiving solution, please visit: www.interica.com/products/pars

To learn more about Quantum's archive storage solutions, please visit: www.quantum.com/archive

SOLUTION COMPONENTS

- Data Sources
- Interica PARS Server
- Quantum Lattus Object Store with optional geospread
- Optional Quantum Scalar tape library for converting existing tape-based archives or creating offline, portable copies

ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at www.quantum.com/customerstories.