Corporate Data Store™ Software

OVERVIEW
The business processes of today’s exploration and production companies depend on enormous volumes of data and information. E&P professionals expend significant time and resources locating data and determining the quality, history and context. Optimizing the quality of their data for new projects is also time-consuming and challenging. Corporate Data Store™ software builds upon Landmark’s industry-leading data management environment to provide an integrated solution to these challenges.

Corporate Data Store software, combined with PowerExplorer®, Advanced Data Transfer™ and DecisionSpace® Integration Server software, creates a powerful corporate data management solution by leveraging a multi-repository data management interface and a rule-based approach to data loading and management of standard references. Together, these applications create a simple yet effective mechanism to access and manage all your corporate E&P data while enforcing your company’s data standards and processes. Better data management enables better decisions in less time.

BENEFITS

Jumpstart New Projects
Corporate Data Store software’s ability to capture the highest-quality data ensures that asset teams have a reliable source for jump-starting new projects. Save days, weeks or even months locating and sifting through seed data for new projects. With the Corporate Data Store software solution implemented, high quality data for immediate use is at the interpreter’s and engineer’s fingertips.

Preserve Corporate Knowledge
Corporate Data Store software captures and preserves the most trusted value-added data of a company and makes it available from one single source. Asset teams and technical data managers quickly locate and trace back the knowledge needed. So while team members may change, the history of data that new members require is always preserved.

Raise the Confidence Level in Data
Corporate Data Store software’s rules-based system of blending data automatically incorporates new data as it becomes available. The blending capabilities help preserve and label data of the highest value without allowing it to be overwritten by values of a lower confidence level. These business rules also minimize manual intervention, thereby saving time and eliminating the possibility of data corruption.

Utilize Your Most Important Asset – The Data
Built in quality controls preserve the quality of your data and ensure that your investment in corporate knowledge is protected through maintained standards. Quality data will be more likely to be used in future projects.

Ensure Corporate Standards Compliance
Corporate Data Store software enhances your corporate knowledge by providing the utilities needed to enforce data standards for reference and completeness.

KEY BENEFITS

» A single, trusted place to find the master copy of an organization’s E&P data (and understand its quality and history)
» Configurable, standard processes to effectively meet an operational division’s corporate standards and practices (that can be leveraged globally by the organization)
» An efficient and flexible solution framework for managing a broad spectrum of E&P corporate data assets (with supporting workflows)
» Integrated with Landmark DecisionSpace® Integration Server and OpenWorks® R5000 applications

KEY FEATURES

» Enterprise-oriented data model
» Data management workflows
» Rich referential context
» Data blending
» Secure corporate repository

“CDS has resulted in improved data delivery to project data stores and in improved business decisions.”
GLOBAL IM PROJECT MANAGER, MULTINATIONAL OIL COMPANY
INFORMATION MANAGEMENT

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FEATURES

Extendable/Adaptable Data Model
Corporate Data Store software incorporates an extendable and adaptable logical data model based on industry standards which enables customers to easily include their own data within the data model and the user interfaces, together with standard JDBC and web services APIs for programmatic access to that data.

Rules-Based Data Blending
Landmark Corporate Data Store system has embedded technology for handling data-blending business rules for automated information capture. The business rules are stored within the (Corporate Data Store) database and are enforced for any updates that are applied. It also contains quality-control history information that keeps a record of all updates that have been applied (to attributes for which blending rules have been defined). As data from higher-quality sources becomes available and is loaded, it will overwrite the less-reliable data, thus increasing the overall confidence level thereby ensuring the most complete and the highest-quality data available.

Well Data Management
The Corporate Data Store data model manages all common well related data types, and includes a full well-wellbore data structure. More generally, it follows the Energistics (POSC) data model standards and recommendations, as well as OpenWorks®. It also features an extensive well test and pressure test model based on PPDM standards.

Interpreted Data Management
The interpretation data types of the Corporate Data Store software data model are aligned with the widely used OpenWorks software project database. This allows the valuable interpretations on key subsurface characteristics, produced by the expert judgment of knowledgeable E&P professionals, to be smoothly transferred from the project interpretation environment to the secure corporate repository.

Quality Module
Interpreted results are stored and labeled with quality measures and supporting annotation in the Corporate Data Store software. In addition, it’s easy to add extra comments or other knowledge worth preserving as extensions to the model.

Associated Electronic Documents
Corporate Data Store software electronic documents can be stored (or referenced from external electronic document management software) and readily associated with the E&P data instances to which they apply.

SYSTEM AND SOFTWARE

Operating Systems
» Red Hat® Enterprise Linux® 7.4 or higher

Hardware
» X86_64 (ideally multi core/CPU), 16+GB RAM, 32GB swap space, 12-16GB free disk space

Software Requirements
Prerequisites:
» Oracle® 12c or 19c
» OpenWorks® 5000.10.6.0
» PowerHub™ 5000.10.1
» PowerExplorer 5000.10.1
» Complemented by
» Advanced Data Transfer™ 5000.10.1

Figure 1: Example view of Corporate Data Store™ well header data with PowerExplorer.