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DataHub
Software Overview

Efficient integration of E&P technical data

Our DataHub software provides ongoing visibility and access to information across Oil & Gas data networks.

The challenge

Oil & Gas networks may consist of physical components such as drilling operations, pipelines and people, but they run on information. To evaluate resources and achieve defined goals requires effective decision making, based on timely data.

Complications arise because parts of Oil & Gas network use different software applications and different standards. Without information exchange, the process of accessing, aggregating, replicating, converting and using E&P data is extremely difficult.

These are just some of the reasons why data presents such a challenge:

- The structure of data in multiple systems is different and constantly changing;
- Legacy data is hard to reach;
- It often costs too much and takes too long to convert legacy and unstructured data to usable formats.

Without the effective consolidation of data, the organisation will not have all the information it needs for decision-making. To help overcome this issue, we developed DataHub.

The solution

DataHub is a managed service that combines complex data from multiple sources, right across an organisation's internal or external networks. Wherever it resides, you achieve a centralised view of your E&P data.

The DataHub software is customised by our consultants to meet your specific requirements and then managed by us, minimising the operational impact on your business.

> "
> We find that ETL Solutions' efficiency, IT expertise and willingness to share knowledge have brought real value and added efficiency.
>
> Global Oil & Gas Survey Company
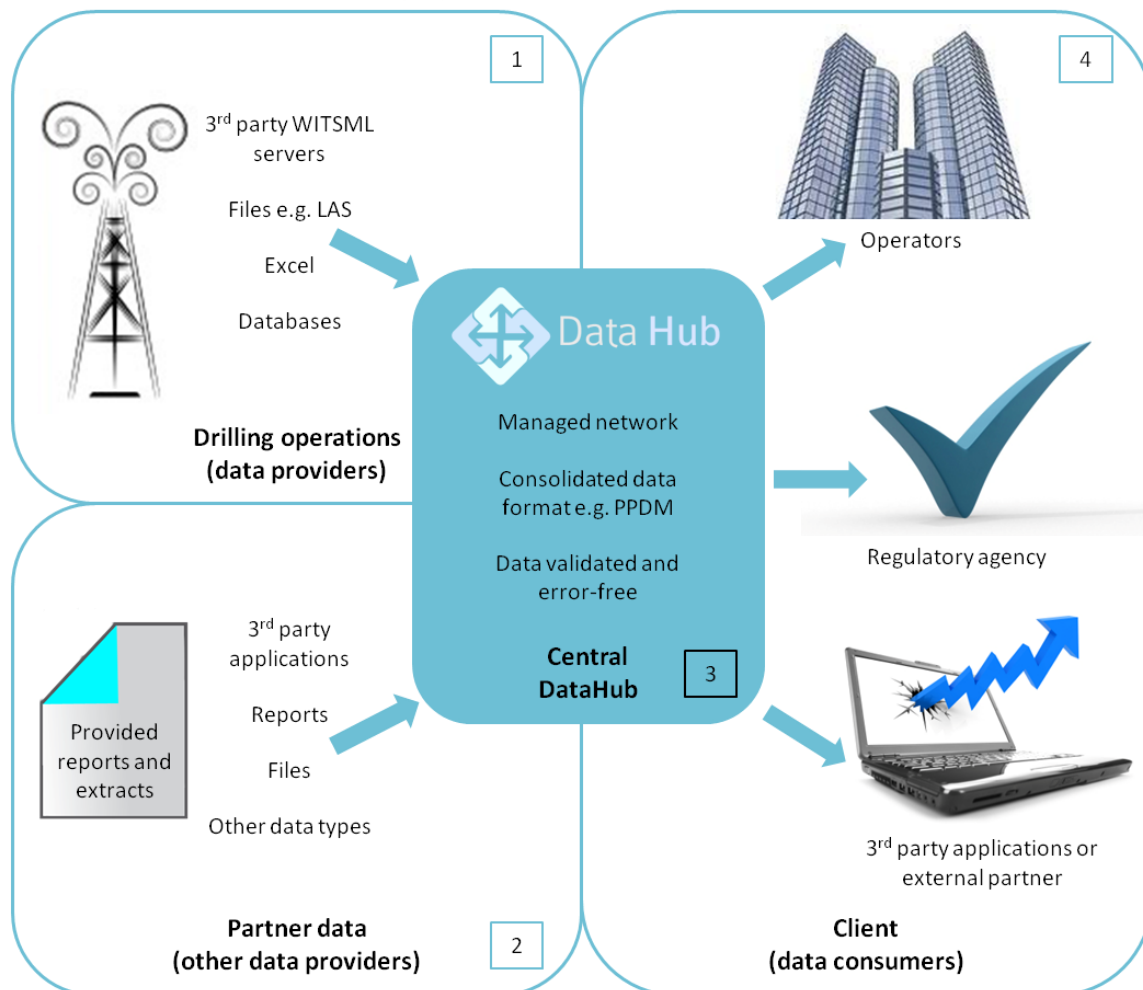> "

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How DataHub works

The software is a core that forms the central part of a network's hub, with points that are data sources. Data is securely extracted from the network's multiple points via an intranet or the internet. The software enables the core to share data bi-directionally with any number of sources.

The data is aggregated, replicated, converted and loaded into a target data store, before being transmitted to the client. Once established, DataHub operates automatically through a central configuration management facility. The software manages any changes in functionality, maintenance routines or software updates, and then deploys them automatically to each location or point. This reduces the burden of maintenance on the client and maintains a full audit trail.

DataHub is totally secure, with industrial-strength encryption. The software can be deployed into two ways: on secure servers at our data centre; or at a physical location of your choice, where we administer the system through a virtual private network. We do not have access to actual client data in either scenario and this, together with the use of 2048 bit encryption, ensures an extremely high level of data security.

DataHub example: E&P drilling operations

3rd party WITSML servers

Files e.g. LAS

Excel

Databases

Drilling operations (data providers) 1

Data Hub

Managed network

Consolidated data format e.g. PPDM

Data validated and error-free

Central DataHub 3

3rd party applications

Reports

Files

Other data types

Provided reports and extracts

Partner data (other data providers) 2

Operators 4

Regulatory agency

3rd party applications or external partner

Client (data consumers)

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Benefits

Negligible IT expertise required
No dedicated IT staff are needed and no training is required. DataHub's software components are downloaded through a web browser with easy-to-follow instructions.

Minimal disruption
Once the software components are installed, they are continually and automatically updated, with no human intervention necessary.

First class security
Data is protected by 2048 bit encryption before it is transmitted to the data centre.

Data quality assured
The data has various processing rules applied to ensure data quality and the formation of a single source of data.

Format flexibility
The data feed can be in a range of formats such as flat files, CSV, Excel or XML. It can also feed directly into a Relational Database such as a Data Warehouse.

Support by expert consultants
We provide full support in all aspects of the planning, deployment and use of DataHub. Support is provided by experienced consultants who constantly use the software themselves.

Contact

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