



Let's Solve

 A Larsen & Toubro
Group Company

Case Study

Built OSDU-Compliant Data Exchange Mechanism for Well Planning & Operation Datasets for Oil Field Service Major





Client

The client is one of the world's largest Oil Field Service Companies (OFS), having operations in multiple countries across the world. It is an industry leader in providing products and services for subsurface data interpretation, drilling well construction, completion, and production optimization.



Challenges

The client was looking for a partner with technology domain expertise to build and implement a single data exchange platform for drilling datasets. Conventionally, the client's proprietary drilling planning/ monitoring applications had multiple, customized integration components. Manual interventions were required to integrate datasets specially from external sources. The main objective of this engagement was to build a unified automated data exchange platform in alignment with the OSDU data platform principles.



LTI Solution

- LTI worked with the client team to build a Kafka based data integration platform.
- Our team worked on multiple technologies and frameworks like Node JS, Microservices, conductor tool, Kafka, and Kettle-Pentaho ETL Transformations to build and deploy the end-to-end workflows.
- In multiple instances, the software codes had to be re-written to upgrade the software applications used for simulation and reporting.

- Our team leveraged their knowledge and work experience on the OSDU platform services in defining the data schemas and validation rule sets.
- Also, the team leveraged the deep domain knowledge of the processes and specific drilling applications to define the field mapping and data storage in the clients proprietary SQL-based databases.
- Verified the data integration and functionality between the clients multiple drilling applications.



Business Benefits

- Automation of the creation of the Drilling Plan for the Well Program. Thus, eliminating the manual interventions required in the conventional way of working.
- **80%** reduction in turnaround time through automation of the seamless flow and integration of data across multiple petro-technical applications across business units.

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