



CHALLENGES

Large volumes of data

Pinpointing risk, errors and anomalies within large data samples

Highly regulated compliance environment

SOLUTION

Data Analysis for Teams

Implementation Services

Consulting Services

INDUSTRY

Business Services

Government

REGION

North America

KEY BENEFITS

Improved compliance assessments and data trending

Ability to effectively oversee millions of data records

Capability to develop customized, reusable analytic scripts as needed

CORVELLE CONSULTING

ACL ANALYTICS EXCHANGE ENABLES COST-EFFECTIVE, TARGETED COMPLIANCE MONITORING

Corvelle Consulting is a Calgary-based partnership of IT professionals providing organizations with expert advice and project management services. One of their clients is an independent, quasi-judicial government agency that oversees the regulation of oil and gas operators—scrutinizing over 100,000 production records submitted monthly. Internal auditors had been using spreadsheets to identify data anomalies in reported production data and wanted to enhance compliance assessments. Based on advice from Corvelle, the agency acquired ACL™ Analytics Exchange to implement a risk-based continuous compliance monitoring program. Corvelle was engaged to manage the development of a suite of customized ACL analytics.

With ACL, the team is now able to identify data anomalies and analyze 12-month data trends, allowing them to conduct more meaningful, focused compliance assessments by targeting key noncompliance risk indicators. Reusable analytic scripts developed by ACL consultants and Corvelle data analysis specialists are stored in a secure audit repository, making it simple for audit staff to access tested, approved, repeatable data investigations and maximize compliance assessment efficiency. Using ACL analytics, the audit staff can quickly pinpoint critical exceptions—contributing to stakeholder confidence and industry-wide compliance assurance.

Customer Profile

Corvelle Consulting is a partnership of IT professionals providing organizations with expert advice and project management services for creating, maintaining and developing mission-critical information systems. One of their clients, an independent, quasi-judicial government agency, hired Corvelle to design and implement an enhanced audit program for improved risk—and control-based compliance monitoring. The agency regulates 160,000 natural gas and oil wells; 34,000 oil and gas batteries and plants; 400,000 km of pipelines; and 38 commercial oil sands plants.

Challenges

The agency monitors oil and gas industry compliance, which includes monitoring all production measurement reported to a central petroleum registry. Currently, the industry encompasses over 500 operators and 26,000 active oil and gas production facilities. The mandatory data reporting submitted monthly by industry operators generates an enormous volume of information, exceeding the capabilities of basic spreadsheet software. Analysis was being performed manually with spreadsheet support. Audit staff was only able to sample a tiny percentage of the data population.



"ACL ANALYTICS EXCHANGE EQUIPS OUR CLIENTS TO CHOOSE CANDIDATES FOR COMPLIANCE MONITORING BASED ON IMPROVED RISK ASSESSMENTS. IT'S A SOPHISTICATED SOLUTION THAT ENHANCES DATA COVERAGE AND HELPS CLIENTS PERFORM MORE TARGETED AUDIT WORK."

-YOGI SCHULZ,
PRESIDENT, CORVELLE CONSULTING

Solution

In an effort to leverage audit best practices, Corvelle designed an enhanced audit program to deliver an improved risk-and control-based compliance approach. Using ACL Analytics Exchange, the project team created comprehensive data investigations to pinpoint exceptions, errors and anomalies. The project team also engaged ACL Consulting Services to lead the ACL analysis projects and ensure their analytic scripts were thorough and efficient.

An experienced ACL consultant spent two days on-site and wrote several comprehensive master analytic scripts that serve as models for at least 50 other automated analyses. The consulting experience was fast and effective, resulting in improved competency and greater confidence for the data analysts.

Results

As Corvelle implements the enhanced audit program for their client, auditors will be able to perform detailed, 12-month trend analyses. By trending the production data, auditors can better understand activity patterns at each facility and identify production data anomalies. The continuous compliance monitoring program provides comprehensive data coverage. In particular, it will highlight meaningful exceptions and errors while avoiding false positives.

With ACL software, the client auditors can more effectively target their audit work and their fieldwork. ACL enables auditors to limit each audit to several key compliance indicators instead of performing a full-scope audit at each facility.

ACL Analytics Exchange allows Corvelle Consulting to:

- Provide comprehensive compliance assessments and data trending.
- Effectively and comprehensively analyze millions of data records.
- Develop new analytic scripts as required.
- Accelerate implementation work for the client.

Corvelle consultants store master scripts in the Analytics Exchange central audit repository. This secure library ensures the integrity of analysis procedures and provides a convenient way for auditors to access consistent, repeatable data investigations. An ongoing relationship with ACL will continue to enhance ROI and promote accurate investigations based on efficient data extraction and analysis practices.

Corvelle is continuing to develop multiple scripts that will analyze production data from different perspectives to produce facility and operator compliance scores. By sharing these scores with both operators and auditors, the team expects operators to proactively address compliance issues. Operators will be better able to provide high-quality data and strengthen internal controls at their own facilities.

With ACL Analytics Exchange, the agency is better equipped to fulfill its mandate and ensure industry-wide compliance—quickly, efficiently and effectively.

Learn more about what
your organization can
accomplish with ACL

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