# Streamlining Operations in Oil & Gas: A Fortune 500 MNC's ODC-led IT Transformation

**CONTATA**

## OVERVIEW

The client is a US-based global technology and engineering leader, specializing in advanced automation, instrumentation, and asset management. A Fortune 500 MNC, the company operates across more than 150 countries, providing systems and solutions to Oil & Gas companies to help them enhance operational efficiency, safety, and sustainability.

## CHALLENGES

Despite its industry leadership, the client faced several challenges typical of large global enterprises, including optimizing costs, acquiring specialized skills, and accelerating digital transformation efforts. Particularly in the Oil & Gas sector, the company sought robust and scalable IT solutions for its diverse clientele to streamline processes, including dock and berth scheduling, pipeline and terminal management, liquid logistics management, nominations, and invoicing. These challenges often involved resource-intensive manual processes vulnerable to errors.

### INDUSTRY
- Oil & Gas

### SERVICES
- Custom Software Development
- Database Management
- Legacy System Integration
- Data Visualization
- Real-Time Data Monitoring
- Application Maintenance
- Quality Assurance

### TECHNOLOGY
- C#
- .NET
- WCF
- Apache Flex
- DevExpress
- Proprietary DB
- SCADA

Additionally, the client faced hurdles in effectively coordinating and managing dispersed IT teams. The absence of centralized oversight resulted in inefficiencies in project management, communication breakdowns, and difficulties in scaling resources as per project requirements. Consequently, the company experienced delays in implementing crucial IT initiatives and struggled to swiftly adapt to market changes. This compromised the company's competitive edge in the dynamic Oil & Gas industry, prompting the client to seek a reliable partner capable of delivering high-quality IT services efficiently.

## SOLUTION

Contata, a global technology services provider, collaborated closely with the client to fully grasp their specific requirements and strategic goals. This partnership led to the establishment of a dedicated offshore development center (ODC) consisting of skilled professionals across various domains such as software development, program and project management, quality assurance, and support services.

In a longstanding 20-year relationship, Contata helped the company's clients in the Oil & Gas industry with diverse solutions, including:

- **Custom Software Development:** We developed custom applications using .NET framework and leveraged Windows Communication Foundation (WCF) for service-oriented architecture, ensuring a robust foundation for application modernization. We built rich client applications with improved UI/UX for desktop and touchscreen interfaces. The applications were tailored for various purposes, such as data visualization, operational control, and reporting.

- **Quality Assurance (QA):** We deployed a team of software Quality Assurance experts who used TestLink for managing test cases and CruiseControl for automated build deployment.

- **Tool Integration**: We integrated tools such as DevExpress into existing systems to build feature-rich, customizable UI components and data visualization widgets within desktop applications. We also utilized DevExpress controls to enhance user experience and streamline data presentation and interaction.

- **Supervisory Control and Data Acquisition (SCADA) Systems:** We developed SCADA applications that integrated with existing infrastructure to gather real-time data from sensors, devices, and equipment, enabling remote monitoring and control of industrial processes in the Oil and Gas sector.

- **Application Maintenance and Support:** We provided 24X7 maintenance, updates, and technical support for software applications that were being used by companies in their day-to-day business operations.

- **Data Management and Analytics:** We build data management platforms and analytics solutions to handle large volumes of data generated from exploration, production, and operational activities.

- **Implementation & Support for IP Products:** Contata provided seamless implementation and exceptional ongoing support for the company's intellectual property products, ensuring optimal performance and reliability.

## BENEFITS

The collaboration exemplified a successful synergy of technology, expertise, and strategic alignment.

- **Cost Optimization**: Achieved through Contata's efficient resource management and streamlined operations under the ODC model.

- **Enhanced Operational Efficiency**: Manual efforts were reduced by 60-70%.

- **Accelerated Time-to-Market**: Streamlined workflows and advanced IT solutions expedited product and solution development.

- **Digital Transformation**: Facilitated the client's agility and competitiveness in the dynamic Oil & Gas sector.

- **Scalability and Flexibility**: Enabled the company to quickly adapt to changing market demands while maintaining high service quality and customer satisfaction.

## About Contata

Contata Solutions is a trusted leader in technology and digital innovation. Through our work in data engineering, data analytics, machine learning, marketing automation and app development, we deliver solutions that address complex problems in ways that are simple, insightful and impactful.

Our promise and value proposition to our customers is simple: we leverage our deep technical expertise and global presence to bring software products and data-driven decision capabilities to life.

Founded in 2000, Contata is a privately-held company headquartered in Minneapolis that serves clients globally from offices in the United States and India.