

## CASE STUDY

# Streamlining Pipeline and Terminal Scheduling for an Oil & Gas Company



## OVERVIEW

The client is a Fortune 500 multinational corporation operating extensively in both terminal and pipeline sectors worldwide.

## CHALLENGES

Due to the challenging economic conditions and increase in the global demand for oil and gas, it has become critical to lower costs to stay competitive in the market, improve performance, and ensure smooth and streamlined operations to meet delivery commitments. Our client wanted to address these challenges pertaining to planning, scheduling, terminal & pipeline management, and transportation. Without the use of advanced solutions and automated scheduling technologies, achieving optimal performance is challenging.

Effectively managing increasingly complex pipeline networks that store and transport a diverse mix of products and resources poses operational challenges.

### INDUSTRY

- Oil & Gas

### SERVICES

- Downstream
- Midstream
- Oil & Gas Automation
- Customer Analytics

### TECHNOLOGY

- C#
- WCF
- WPF
- DevExpress
- SQL Server



## SOLUTION

Cantata's deep domain knowledge and industry experience led to the implementation of one of the world's few Oil and Gas logistics solutions. It is a Windows-based desktop application with client/server architecture) that functions as a liquids/gas scheduling system. The software addresses the challenges of efficiently transporting vast amounts of crude oil, gas, and refined products through an extensive network of pipelines. It provides a central data repository to standardize information management for accounting and marketing groups, operations, engineering, and management within a single application. Here are the key features:

- SCADA integration & real-time Insights
- Schematic: Pictorial representation of a terminal (having pipeline & tanks)
- Gantt/Railroad Charts: Graphical representation of scheduled batches
- Simulated terminal tank tracking, loading/carriers
- Advanced database & reporting functionalities

## BENEFITS

- Increased operational scope and streamlined processes as per the industry standards.
- Reports provide real-time visibility by displaying injection start and end times for each batch at every supply location
- Operational and planning efficiency was improved by 41%.
- Easy to integrate with field systems like SCADA to give users end-to-end automated solutions.
- Increased profitability by 51% through improved accuracy in reporting and real-time data visibility.

## 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.