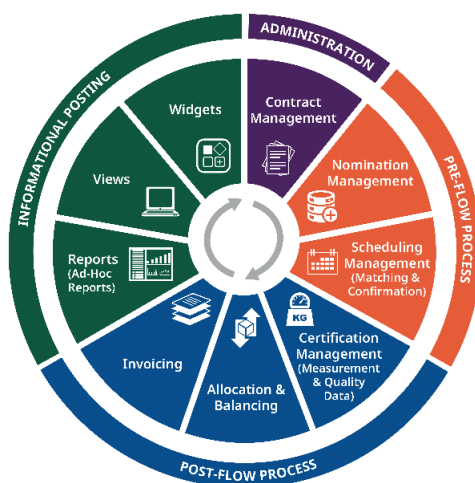


DeltaV™ O2CManager™ Software for Gas Shippers and Merchants

A Single Order-to-Cash Software Solution that Integrates Purchase, Sale, and Transportation Arrangements with Third Parties



Accurately and reliably manage all transactions with third parties related to the purchase, sale, and transport of natural gas with a turnkey, off-the-shelf software solution.

Improve Efficiency

- Streamline management of complex purchase and sale contracts and transportation agreements
- Rapidly mitigate manual, error-prone processes with an easy to implement solution
- Make informed decisions quickly using real-time data
- Share relevant information with stakeholders through web-enabled, permission-based access

Comply with Contract and Regulatory Requirements

- Ensure all contracts comply with regulatory requirements by managing purchase and sale agreements turnkey
- Quickly access a full record of all transactions for auditing compliance
- Mitigate risk by automating processes

Increase Productivity

- Allow merchants to manage gas equality from the wellhead to the burner tip
- Enable shippers to effortlessly manage requests for gas and gas availability
- Connect with online hydraulic models, such as DeltaV™ PipelineManager™ for Real-Time Transient Modeling (RTTM) and DeltaV PipelineStudio™ Software, to streamline scheduling
- Assign permission based roles to prevent unauthorized access to an accurate and robust dataset

Manage Commercial Processes Turnkey

The commercial process can be complex for gas shippers and merchants. Delays and errors can occur due to data silos, manual input, and poor communication lines. DeltaV O2CManager™ Software for Gas Shippers and Merchants integrates all components of purchase and sale agreements and transportation arrangements with third parties to streamline the entire commercial process. Our advanced software increases customer satisfaction by ensuring all aspects of the order-to-cash process are completed accurately and on time. Gas shippers share both commercial and operational information with key stakeholders, including producers, processors, transporters, and end users, within the same software system.

Our powerful and flexible software provides an end-to-end solution for efficiently sharing commercial and operational information with all customers and stakeholders involved in the commercial gas business cycle. A simplified data set up allows for rapid implementation while comprehensive web-enabled functionality makes information quickly accessible to both internal and external users through a single, online portal. DeltaV O2CManager Software for Gas Shippers and Merchants provides operations of all sizes with a turnkey solution for efficiently managing and maintaining purchase and sale transactions regardless of complexity or the volume of data involved.

Easily Integrate Systems

Get the speed and capacity to compile data from multiple sources using the powerful engine in our DeltaV O2CManager Software. SCADA and gas measurement systems easily integrate with our advanced software to ensure transactions are monitored and based on precise product measurements. The software also integrates with Microsoft® SQL Server® to provide streamlined reports containing critical operational data, helping gas shippers and merchants analyze gas flows and make informed decisions. The integration of this critical operational data also allows for more efficient analysis of sale and purchase volumes using detailed financial reports generated by our order-to-cash software. With access to accurate and reliable data, shippers and merchants quickly identify and mitigate risks related to gas availability, such as gas disruptions or regulatory changes. A fully auditable record of all transactions enables rapid response to regulatory compliance requests and audits. Specific operational requirements are also easily met using modules within our DeltaV O2CManager Software to mitigate errors and improve customer satisfaction. For instance, a unit measurement module allows users to choose from a variety of SI and imperial units. A configuration management module allows users to create and manage information by account, including purchase and sale contracts, companies, contacts, measurement points, meters, pipelines, and other master data.



What is Order-to-Cash?

The **order-to-cash (O2C)** process begins with customer orders and concludes with receipt of payments. In the gas business cycle, it includes nominations management, allocations, inventory management, invoicing, and payment processing. DeltaV O2CManager for Gas Shippers and Merchants (formerly known as TransactionManager™) is a powerful yet agile system that streamlines the order-to-cash process by ensuring easy, real-time access to all data related to commercial activities.

Efficiently Manage Operations

Enhance decision making and improve customer satisfaction with our order-to-cash software. DeltaV O2CManager Software for Gas Shippers and Merchants optimizes operations by ensuring all parties involved in the business cycle can easily access critical data and provide input as needed. Pre-flow operational modules for gas availability (purchase), client nominations (sale), take-or-pay obligations, confirmations, and scheduling management help users efficiently assess supply and demand. The scheduling management module includes the possibility to perform hydraulic validations of received daily or intraday client nominations. Modules can also be used post-flow to insert or modify gas quality or measurements, enter operational and official volumes, and manage allocation based on predetermined daily allocation rules.

Run Gas Availability Analysis

Analyzing gas availability is a critical process for gas shippers and merchants to ensure contractual obligations are met. DeltaV O2CManager Software for Gas Shippers and Merchants streamlines the handling of supply and demand to improve reliability. It intelligently keeps tabs on market conditions, including price fluctuations and regulator changes that may impact gas availability. This market data allows the software to efficiently allocate all resources and ensure there is enough gas inventory available to meet demand while minimizing storage and operational costs. Our powerful software integrates with ERP systems for comprehensive resource planning, data management and analysis. These integrations allow our software to gather information on gas production, storage levels, and pipeline capacities from gas transmission and distribution pipelines and storage facilities, ensuring that accurate data is on hand to make informed decisions. Historical usage patterns and other critical customer data is collected by our software to help avoid shortages and ensure all customer demands are met.

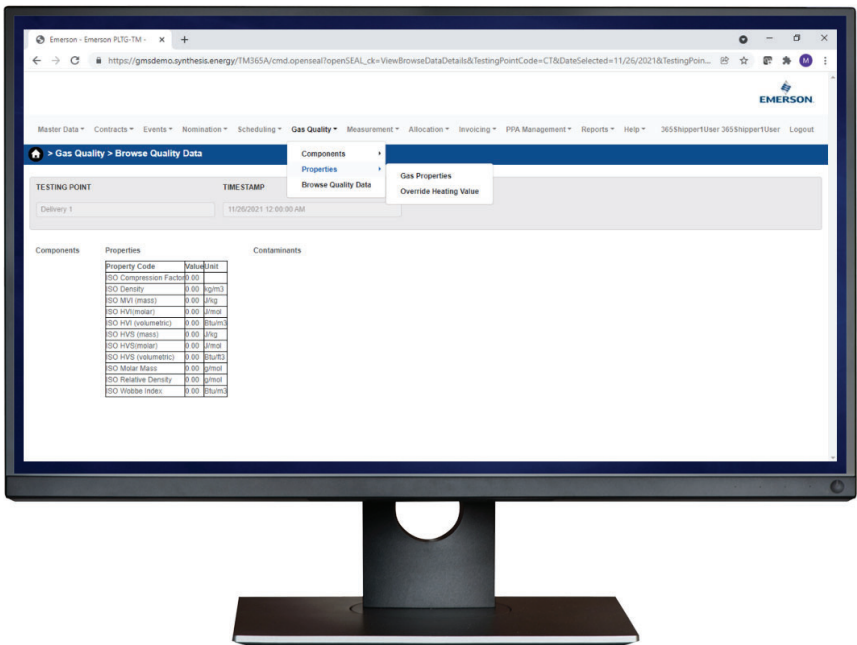


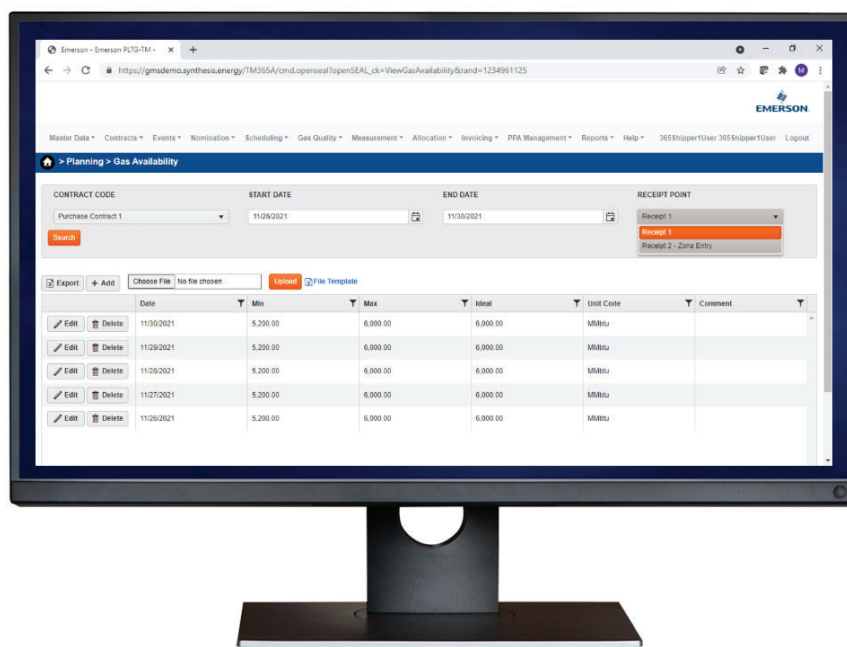
Figure 1: Manage operations with insights into gas quality.

Optimize Nominations

Turnkey management of the nomination process reduces errors and minimizes contractual disputes. DeltaV O2CManager Software for Gas Shippers and Merchants optimizes the nomination process by cohesively managing nomination submissions to gas transmission and distribution pipelines while managing contracts with producers, transporters, and end users to ensure all nominations align with contractual obligations. Our software supports an Entry/Exit Model, where nominations are entered at each point independently, resulting in no relation between the entry and exit points. Merchants can integrate DeltaV O2CManager Software with our DeltaV PipelineManager for Real-Time Transient Modeling (RTTM) and/or DeltaV PipelineStudio Software or third party software to assist in hydraulic validation of nominations. After careful analysis by our software, gas shippers and merchants confidently confirm nominations and verify that the requested quantities can be transported to meet daily nomination deadlines. Intraday changes that can provide new opportunities are also monitored by our flexible software, ensuring gas shippers and merchants can easily adjust nominations based on changes in supply, demand, and/or pipeline conditions.

Seamlessly Manage Scheduling

Merchants confidently schedule product by integrating DeltaV O2CManager Software for Gas Shippers and Merchants with online hydraulic models, such as our PipelineManager for Real-Time Transient Modeling (RTTM) and/or DeltaV PipelineStudio Software, to bridge the gap between the commercial and operational world in merchant markets. Our software schedules gas flows based on validated nominations, ensuring efficient transportation and compliance with contractual and regulatory requirements. Schedule nominations by points and view transport, producer, and client confirmations in an easy to navigate table that can be exported to Microsoft Excel®.



The screenshot displays the 'Planning > Gas Availability' section of the software. It features a search bar with fields for 'CONTRACT CODE' (set to 'Purchase Contract 1'), 'START DATE' (11/29/2021), 'END DATE' (11/30/2021), and 'RECEIPT POINT' (Receipt 1). Below the search bar is a table with columns: Date, Min, Max, Ideal, Unit Code, and Comment. The table contains five rows of data for the dates 11/30/2021, 11/29/2021, 11/28/2021, 11/27/2021, and 11/26/2021. Each row has 'Edit' and 'Delete' buttons. The 'Unit Code' for all rows is 'Mblbu'.

Date	Min	Max	Ideal	Unit Code	Comment
11/30/2021	5,200.00	6,000.00	6,000.00	Mblbu	
11/29/2021	5,200.00	6,000.00	6,000.00	Mblbu	
11/28/2021	5,200.00	6,000.00	6,000.00	Mblbu	
11/27/2021	5,200.00	6,000.00	6,000.00	Mblbu	
11/26/2021	5,200.00	6,000.00	6,000.00	Mblbu	

Figure 2: Ensure contractual obligations are met by analyzing gas availability.

Allocate Volumes Confidently

Gas shippers use our software to enter and modify operating volume, ensuring the actual gas flows are accurately recorded. Allocating additional capacity is managed by predetermined rules and calculations. DeltaV O2CManager Software for Gas Shippers and Merchants includes modules for entering gas quality measurements for accurate volume analysis. It provides simplified data management and online or offline hydraulic validation when integrated with DeltaV PipelineManager Software and/or DeltaV PipelineStudio Software or third party software. In addition, web-enabled functionality makes information widely available to authorized users.

An End-to-End Solution for Shippers and Merchants

Streamline the entire commercial process in a single software system. Shippers use DeltaV O2CManager Software to manage purchase and sale contracts turnkey throughout the entire gas business cycle. Merchants use it to manage gas equality, third-party purchasing, and sales supply from the wellhead to the burner tip.

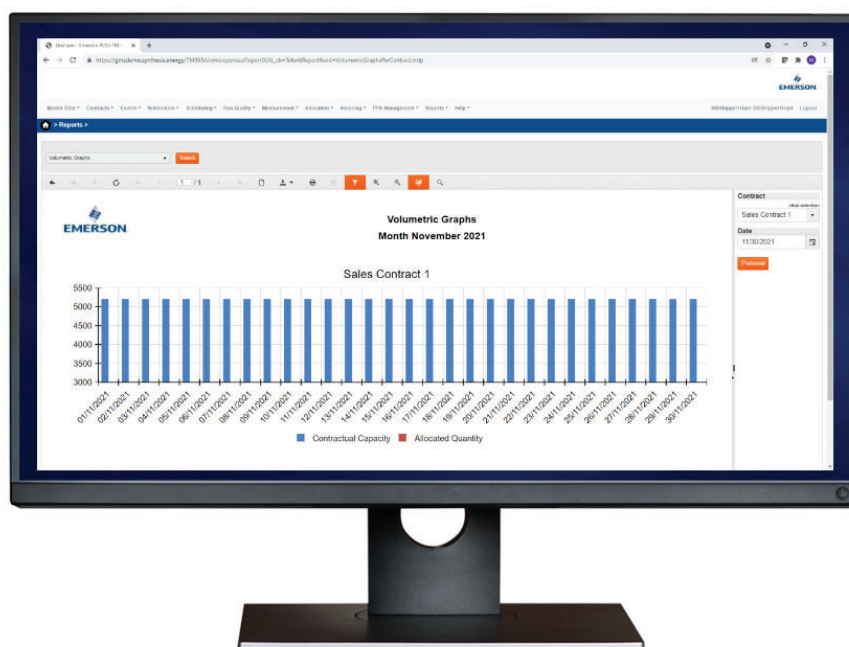


Figure 3: Ensure actual gas volumes are recorded.

Invoice Quickly and Accurately

Expedite invoicing at month end by closing the books with speed and accuracy. DeltaV O2CManager Software for Gas Shippers and Merchants natively issues invoices directly or sends pre-invoicing data to third-party applications to complete the gas business cycle. All software-generated invoicing and reports comply with regulatory standards, making it easy for companies to meet reporting obligations. The formula editor within our software allows creation of simple and complex tariffs, fees, and penalties for each contract. Our software also keeps track of all delivery and receipt activities to measure against imbalances. Users can manage daily commercial imbalance and gas accounting by actualizing volumes, invoicing sales, and accruing purchase and transportation payables. This turnkey function facilitates compliance with contractual obligations. DeltaV O2CManager Software for Gas Shippers and Merchants integrates with general ledger and ERP systems, including SAP™ and Microsoft Dynamics 365®, ensuring financial management decisions are accurate and based on the most current data.

Safely and Reliably Transfer Data

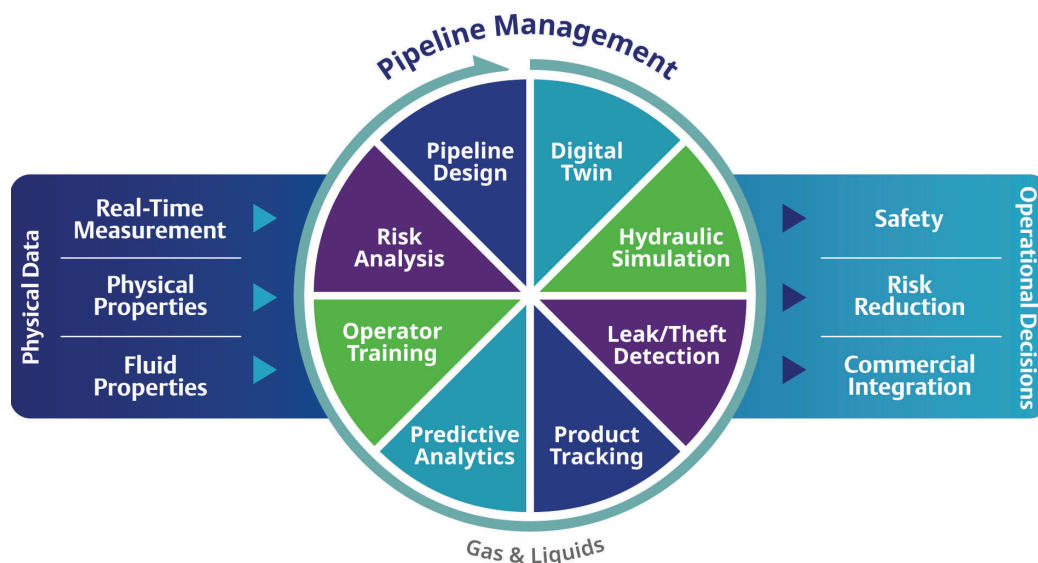
Keep your data safe and systems secure. DeltaV O2CManager Software for Gas Shippers and Merchants incorporates several cybersecurity measures to ensure the protection of sensitive data. Our web-enabled application provides safe and convenient access through a security management module, with only authorized users given access to specific data and functionality. Administrators are responsible for continually managing and updating robust control mechanisms to ensure roles and permissions by user are in place. Our software uses advanced encryption techniques to protect data both in transit and at rest. DeltaV O2CManager Software for Gas Shippers and Merchants integrates with existing security systems and uses EDI protocols when transferring data between gas shippers, merchants, and gas transmission and distribution pipelines to further protect your operations.

Increase Cybersecurity

DeltaV O2CManager Software for Gas Shippers and Merchants can be deployed securely on-premises or in the cloud. The software integrates with your SCADA system for safe and secure sharing of information and helps manage cybersecurity risks by assigning roles to limit access to information. It also integrates with general ledgers, ERP systems, data warehouses, and gas management systems.

Agile Software Solutions for an Evolving Industry

Pipelines will continue to play a critical role in the future of energy transportation. Companies transporting hydrogen and CO₂ will likely use existing natural gas pipeline infrastructures. Carbon capture and sequestration programs will also rely on existing gas pipelines for transport. Emerson's software is built for the energy transition and will continue facilitating the transport of all products, including hydrogen, along the energy value chain as the transition to a low-carbon economy continues.



Streamline opportunities and overcome limitations by meeting commercial and operational objectives and regulatory requirements with our agile, field-proven software portfolio for gas and liquids pipelines.

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