

DeltaV™ O2CManager™ Software for Gas Transmission and Distribution Pipelines

A Single Order-to-Cash (O2C) Software Solution that Integrates all Commercial Activities for Operators and Stakeholders



Accurately manage all natural gas commercial transactions and contracts with an off-the-shelf software solution that complies with local regulations, including NAESB.

Comply with Contract Terms

- Facilitate compliance with regional regulations, including NAESB Wholesale Gas Quadrant standards
- Manage transportation agreements and service transactions in a regulated and standardized format
- Easily create and share regulatory-compliant audit reports (NAESB and others) with custom views

Measure and Validate Capacity

- Accurately identify and allocate additional capacity using predetermined rules
- Effectively manage unaccounted for gas and imbalances
- Improve the scheduling accuracy of quantities nominated by integrating with online or offline hydraulic models, including models created with DeltaV™ PipelineManager™ Software and/or DeltaV PipelineStudio™ Software

Improve Transaction Visibility

- Track all transactions for nominations, scheduling, confirmations, certification, allocations, and pre-invoicing
- Improve visibility of line pack to leverage it for additional revenue generation
- Enhance connectivity and transparency with customer
- Satisfy auditing requirements with ease

Access Data Anytime, Anywhere

- Manage contracts and nominations on-the-go using our mobile app
 - Seamlessly transfer pipeline data using the EDI protocol
 - Create simple or complex tariffs, fees, and/or penalties per contract
 - Prevent violations of contracts with alarm settings

Realize Your Revenue Potential

Gas pipeline networks are becoming increasingly complex with operators under greater pressure to fulfill demand. Outdated commercial management systems and inefficient business software further complicate matters by adding to operational complexity, making it difficult to easily access and view critical details such as nomination data or violations of shipper/receiver contracts. These complications lead to negative customer experiences, and opportunities to increase revenues with existing customers are often lost due to mismanagement of nominations. New business can also be lost when customer contracts are not managed transparently and efficiently.

Achieve operational excellence by transforming your entire commercial process with DeltaV O2CManager™ Software for Gas Transmission and Distribution Pipelines. Our robust software system delivers an end-to-end solution, ensuring a seamless order-to-cash (O2C) process that is completed accurately and on time. It allows users to easily integrate and manage all commercial and operational information in a single system to heighten efficiencies and increase revenue generation opportunities while remaining compliant with local regulatory requirements. A convenient online portal also gives authorized users, including customers and stakeholders involved in the gas business cycle, access to critical information anytime, anywhere.

Automate Compliance with Regulators (NAESB, etc.)

Manual processes and disjointed software tools and systems introduce risk. Put your company on a successful path by moving to a cybersecure, agile, and robust order-to-cash solution to effectively and legally participate in the energy marketplace. Our modular DeltaV O2CManager Software offers configuration capabilities that align with regulatory requirements, including NAESB's core tenets of inclusivity and flexibility.

Since many of the NAESB standards are incorporated into federal requirements by the Federal Energy Regulatory Commission (FERC), it is critical that North American gas pipeline companies implement NAESB-compliant business practices with tools and protocols that enhance system and software security for transactions. Complying with NAESB standards is often necessary to avoid legal repercussions and federal penalties. With DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines, companies can automate this regulatory compliance while gaining the abilities to operate responsibly and ethically in a regulated and competitive marketplace, build trust with customers, investors, and stakeholders, and achieve long-term success and sustainability in the energy industry.



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 Transmission and Distribution Pipelines (formerly known as PipelineTransporter™) 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.

Invoice with Speed and Accuracy

Our software combines nominations, scheduling, certification management, allocation, balancing tools, invoicing, and reporting into a single operational structure. Schedulers validate capacity during the scheduling process by integrating DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines with online or offline hydraulic models, including DeltaV PipelineManager Software and/or DeltaV PipelineStudio Software. This modeling software increases business opportunities by accurately measuring incremental capacity while it effectively manages receipts and deliveries to increase profitability. To further enhance efficiencies, DeltaV O2CManager Software can perform hydraulic validations of received nominations when online or offline hydraulic models are integrated. This turnkey software solution streamlines access to mission-critical information, ensuring operators can manage requests more efficiently and issue invoices directly from the software upon receipt.

The Importance of NAESB Compliance

Companies that follow NAESB standards benefit from structural protections to help safeguard reputations and the integrity of the gas marketplace. Additional benefits include:

- A reduction in errors that minimizes dispute resolution
- Efficient and cost-effective business processes
- Consistent practices to maintain an orderly and predictable market environment.

Optimize through Automation

Automation, integration, and optimization are key pieces needed to increase connectivity and operational flexibility for gas transmission and distribution pipelines. Manual retrieval and coordination of time-sensitive Operational Balance Agreements, transport, pooling, and Parking and Loan agreements and transactional data hinders communication and negatively impacts customer relations. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines streamlines data retrieval and minimizes human errors by providing a cohesive, online environment that virtually eliminates manual processes. The software's integration and optimization algorithms enable users to efficiently problem solve by providing valuable insights into asset utilization.

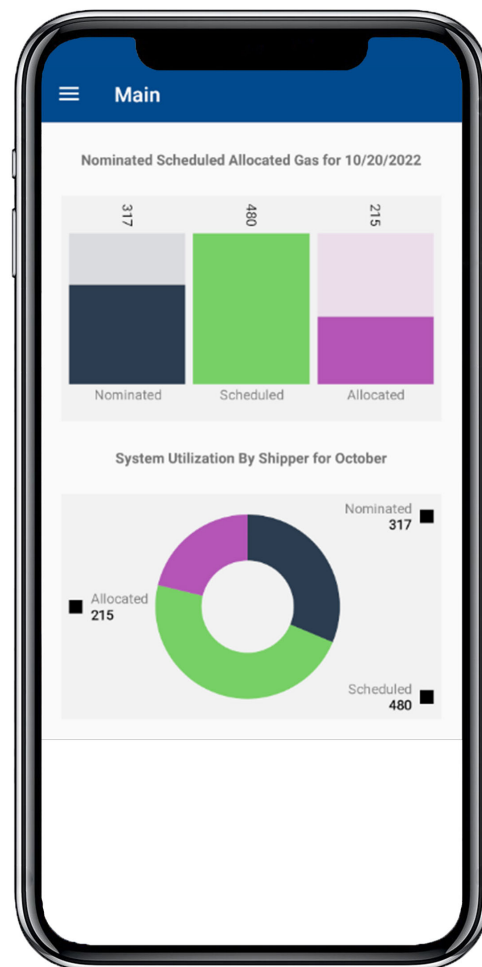


Figure 1: Gas transmission and distribution pipelines can manage scheduling and other business functions from anywhere using the mobile app.

Automated software systems can also improve reliability by ensuring the necessary operational data is integrated, resulting in improved management and performance. Our turnkey commercial software ensures gas transmission and distribution pipelines can effectively communicate and share information with all producers, processors, suppliers, transporters, end users, and other stakeholders involved in the commercial gas business cycle.

Validate and Increase Capacity

Increasing capacity demands on gas transmission pipelines puts more pressure on gas controllers to effectively manage nominations and scheduling processes. Our order-to-cash software provides gas transmission and distribution pipelines with an optimized solution for scheduling and nomination management with enhanced access to relevant data, accurate measurement of actual pipeline performance, and increased visibility of pipeline capacity. The software also enables Capacity Right Trade and Exit Capacity Transfer services. By integrating our software with all data management systems, users gain enhanced visibility to efficiently analyze data and make informed business decisions that can result in increased capacity.

Increase Cybersecurity

DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines can be deployed securely on-premises or in the cloud. The software integrates with your SCADA system for safe and secure sharing of information. It also integrates with general ledgers, ERP systems, data warehouses, and gas management systems. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines is a cybersecure SOC-compliant solution.

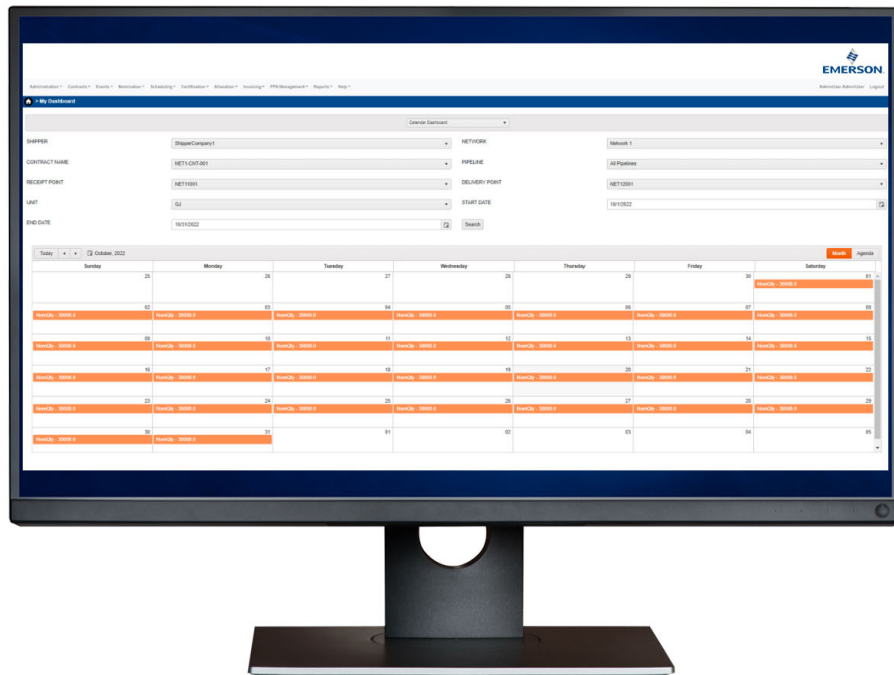


Figure 2: Manage, validate, and allocate capacity using predetermined rules.

Securely Streamline Communications

If operators are unable to identify and respond to changing pipeline operating conditions, it can become challenging to meet customer expectations. In addition, service disruptions resulting from an outdated system can lead to contract violations, fines, and lost revenue. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines mitigates these issues and offers a simplified data set up, allowing for rapid implementation while comprehensive, web-enabled functionality makes information widely available for both internal and external users.

The application also contains modules for certification of measurements, calculations of unaccounted gas, and allocation management based on predetermined allocation rules. The software integrates into SCADA systems to improve safety capacity optimization and is SOC-compliant to enhance cybersecurity, leading to better overall pipeline operations management.

Administer Contracts Effectively

The configuration management module in DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines allows users to easily create contracts, companies, contacts, meters, pipelines, and other data. Contracts created using the software comply with applicable regulatory standards, including NAESB. Users can create simple or complex tariffs, fees, and penalties for each contract using the formula editor. Additionally, users can monitor and set up third party access to contract details. All contracts negotiated between the gas pipeline operator or local distribution company and its shippers to move gas are quickly identified, allowing data to be accessed, managed, and acted on in real time as they relate to receipt and delivery points, penalties, tariffs, volumes, and more. The software also provides alarms on changes in pressure, temperature, and GVC/BTU to prevent violation of contract terms.

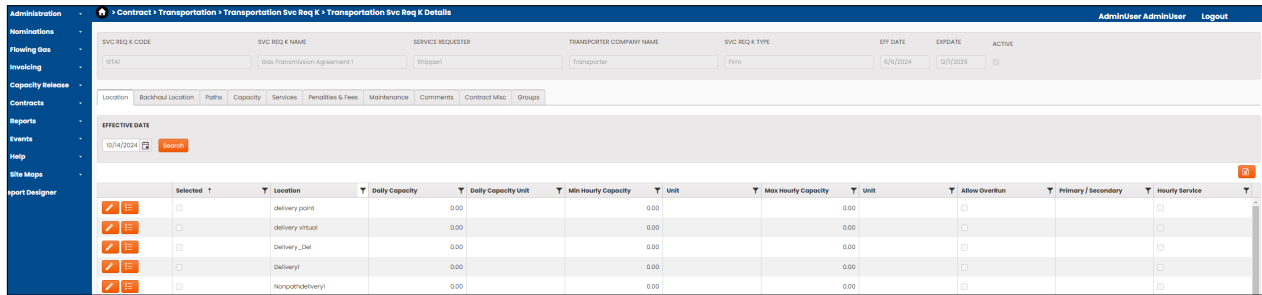


Figure 3: Manage all contracts in the system using the Contract Management Screen.

Easily Validate & Standardize Nominations

Inefficient management systems make it difficult to obtain and analyze accurate measurement and performance data, but reliable and accessible data is necessary for efficient planning of nominations. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines easily optimizes nomination planning and scheduling and follows the applicable nominations standards addressed by regulatory bodies including NAESB. Users can ensure contract fulfillment and quickly validate nominations with increased visibility, better data management, enhanced system integration, and improved communication with customers. Nominations with third parties can be standardized using EDI protocols. The software also integrates with simulation tools, including DeltaV PipelineManager Software, to assist in hydraulic validation of nominations.

Seamlessly Manage Scheduling

Obsolete and inefficient nomination management systems can negatively impact scheduling processes. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines provides simplified data management and hydraulic validation with comprehensive, web-enabled functionality. The software adheres to applicable regulatory standards related to scheduling, including NAESB.

Capitalizing on new incremental revenue opportunities is impacted by the commercial system’s ability to streamline the nominating and scheduling process for a pipeline operator’s customers and their shippers’ customers. Our software allows users to easily generate, match, and confirm pipeline schedules by providing access to relevant data. The software enables companies to easily acquire, coordinate, integrate, and communicate all agreements and transportation data with customers, creating an efficient and transparent scheduling management process.

Ensure Data Quality with Certification Management

Gas transmission and distribution pipelines must rely on quality data to make informed business decisions. Our order-to-cash software allows for management of data sets, business transactions, balancing rules, tariffs, and more. Reliable source data certifications are tied to a SCADA or an alternative gas management system, allowing pipeline operators to efficiently manage third-party access.

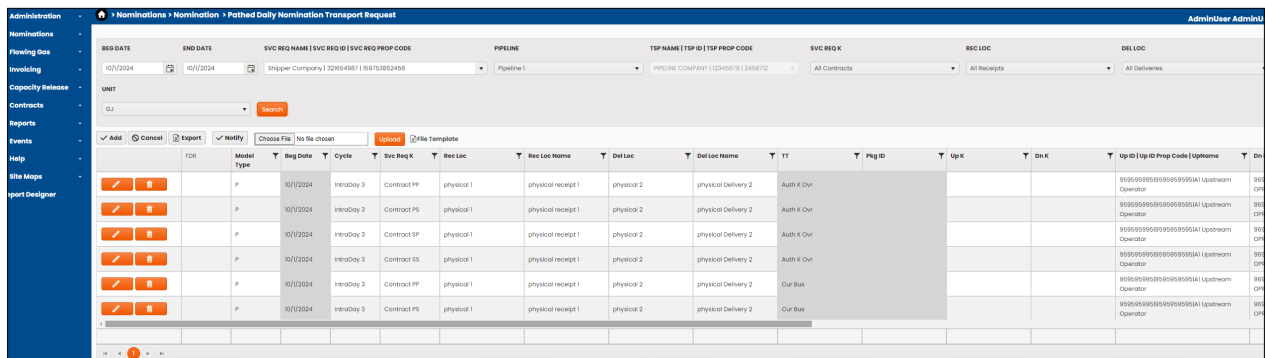


Figure 4: Gain greater visibility to all nominations in the system using the Nominations Management Screen.

Allocate and Balance Confidently

Gain visibility into imbalances with DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines. Users can manage allocation based on predetermined rules and calculations and accurately identify and allocate additional capacity. Imbalances can be difficult to identify and locate without adequate visibility into transportation activity or real-time occurrences of lost and unaccounted for (LAUF) gas that could be indicators of a potential leak. The software provides simplified data management and online or offline hydraulic validation with comprehensive, web-enabled functionality to make information widely available to users. By measuring LAUF gas while managing deliveries by account, the software can provide alarms in the event of over/under deliveries that can lead to an imbalance.

Safely Publish and Share Reports

Improved connectivity with customers is crucial for an efficient and profitable operation. DeltaV O2CManager Software for Gas Transmission and Distribution Pipelines provides companies with a safe and secure way to publish and share reports with customers during each stage of the gas management business cycle. Reports can be generated for pre-flow processes such as nominations and scheduling. Data from post-flow processes such as certification management, allocation and balancing, and invoicing can also be securely shared with relevant stakeholders. All reports are highly configurable, including the Nominations by Contract Report.

Information is shared in an easy-to-navigate dashboard with custom interactive views. Regulatory-compliant audit reports, such as those for NAESB, are easily created and shared with a simple dashboard. The software also offers custom views for different regulatory bodies or operational stakeholders. The robust reporting functions are highly flexible and interactive, and can increase visibility, connectivity, and transparency with customers

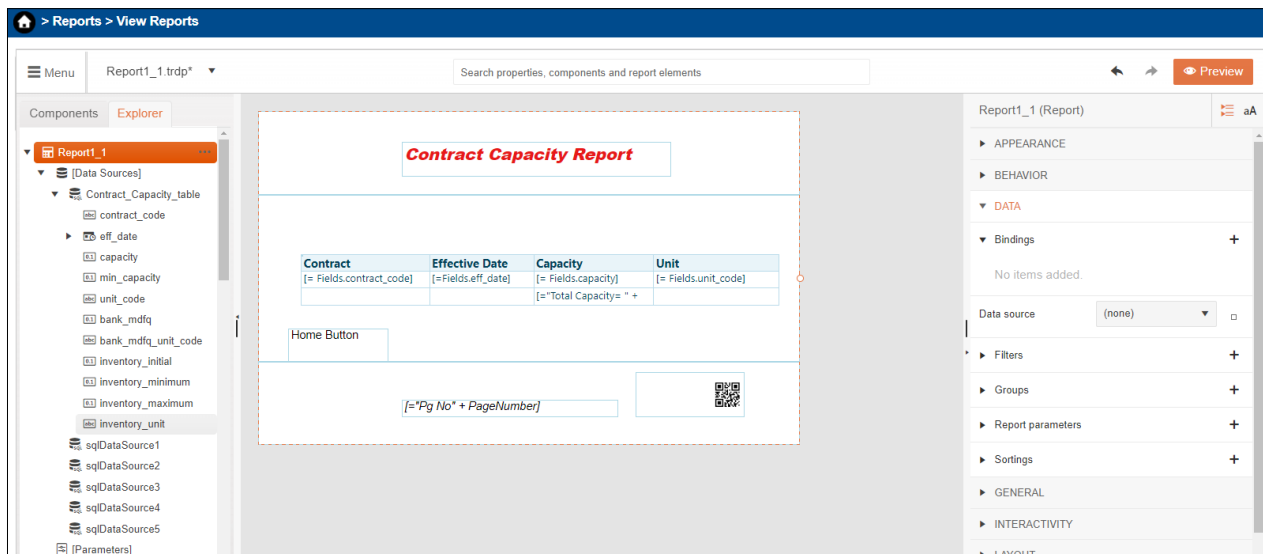
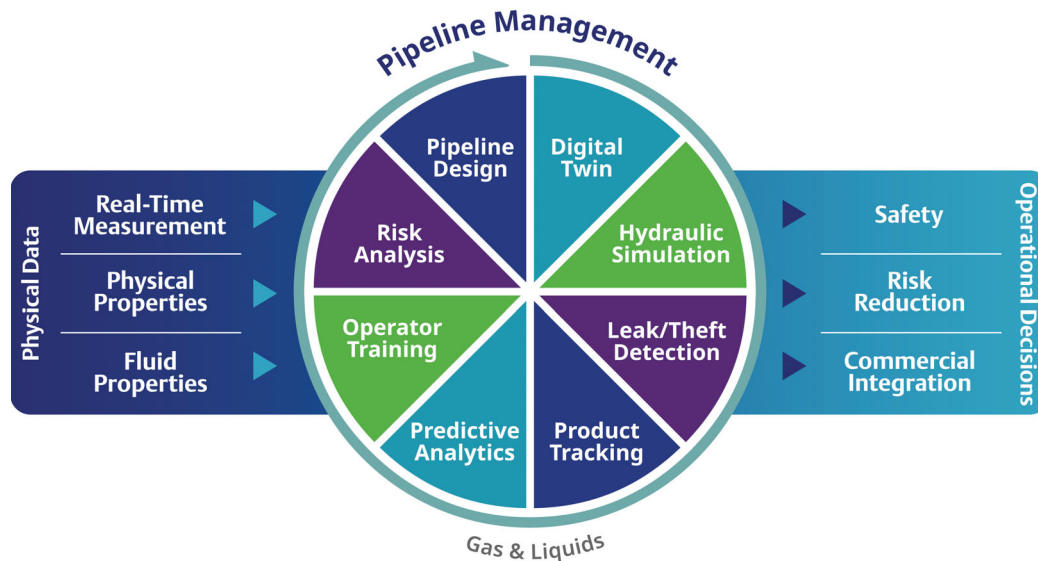


Figure 5: Generate highly configurable reports, such as the Contract Capacity Report.

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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