Transform your oil and gas pipeline operations

Pipeline Management Solutions

Drive better bottom line results by connecting your pipeline operations and commercial activity.

EMERSON

You are experiencing increasing challenges to meet customer demands and maximize pipeline profitability.

Remaining competitive in an increasingly complex and globally interconnected pipeline network is challenging. With aging infrastructure and an evolving regulatory environment, maintaining the integrity of your assets is becoming more difficult, and the potential consequences of pipeline failures are becoming more and more severe. Operational costs continue to increase and your operation is struggling to manage point solutions which don't meet your needs. And, with a swiftly changing product source and demand picture, you are unable to respond nimbly to new pipeline opportunities before your competitors do.

Our pipeline solutions address your toughest challenges.

Safety | **Financial Performance** | **Regulatory Compliance** | **Customer Satisfaction**

+ Identify leaks and other operational issues in real time to improve safety

+ Maximize throughput to enhance financial performance

+ Aggregate data more efficiently to facilitate regulatory compliance

+ Forecast more accurately to improve customer satisfaction

Instead of being distracted by frequent emergencies and problems, what if you could have real-time process insights that increase throughput while improving customer retention?

Integrate operational and commercial activity to maximize pipeline throughput.

Emerson can partner with you to deliver Pipeline Management Solutions that will help you achieve new levels of profitability and better navigate an increasingly complex global pipeline network. Our scalable, integrated solutions from the field to the enterprise will enable you to manage the integrity of your pipelines, operate with integrated financial and operational decision making, and respond quickly and confidently to new business opportunities. A safe, efficient and profitable pipeline operation is within your reach.

Operate safely and efficiently

Maintain visibility and control of dispersed pipeline assets by implementing integrated automation systems that support best practices for control room management.

Optimize the order-to-cash cycle

Ensure timely, accurate transactional data and provide complete and automatic visibility to customers by optimizing the order-to-cash cycle to achieve greater customer satisfaction.

Manage pipeline integrity

Ensure the long term viability of your pipeline assets with Emerson's comprehensive integrity management solutions that improve critical data management and allow for better visualization, risk analysis and modeling.

Maximize pipeline throughput

Use our best-in-class scheduling tools to optimize your pipeline operations and de-bottleneck your assets to achieve top line revenue increases of 5 to 15%.

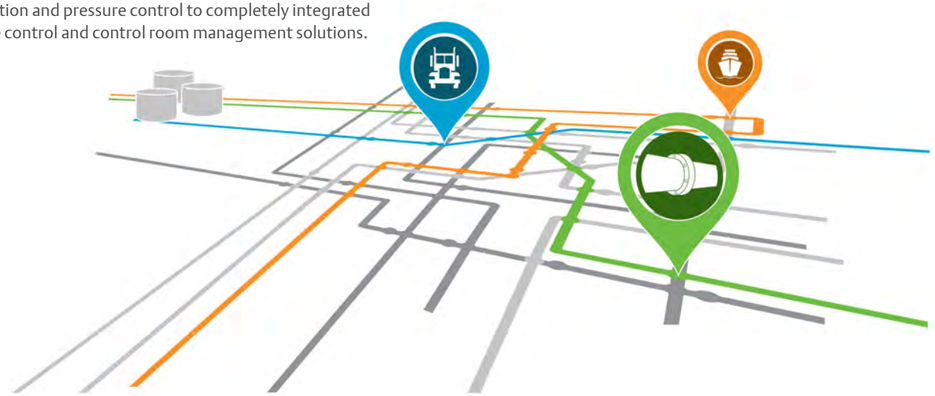
A complete portfolio of solutions that addresses pipeline operations from the field to the enterprise.

Pipeline Management Solutions

Emerson's Pipeline Management Solutions integrate the commercial and operational aspects of your business to help maximize pipeline throughput and minimize integrity challenges. Our innovative systems and applications are designed to drive optimal performance across the entire pipeline system.

Pipeline Automation Solutions

Emerson's leading portfolio of automation solutions for pipelines range from field level system solutions for valve automation and pressure control to completely integrated pipeline control and control room management solutions.



Pipeline Management Solutions

Synthesis™ / PipelineTransporter™ / TransactionManager™
Enterprise level order-to-cash applications for managing gas and liquids contracts, order and inventory

PipelineScheduler™
Planning and scheduling tools for identifying constraints and optimizing pipeline resources and assets

TransportPlanner™
A comprehensive system for managing complex transportation networks with the ability to determine network capacity and verify nominations

PipelineManager™
Software platform for advanced leak and theft detection, operations management and predictive simulation

PipelineTrainer™
Pipeline controller training and certification solution to ensure consistent compliance to operational procedures and regulatory compliance

Integrity Management Solutions
Software portfolio for pipeline asset data management, risk assessment and integrity management

Pipeline Automation Solutions

ControlWave™ RTU
Programmable field controller designed for remote applications with the ability to network and connect to a wide range of devices using multiple protocols

OpenEnterprise™ SCADA
Supervisory monitoring, process control and historical reporting system for all aspects of pipeline automation, from managing movements to reporting of operations and system activities

AMS™ Suite
Asset management solution for the optimization of asset maintenance, diagnostics and KPI performance and health of instrumentation and equipment

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Emerson's Pipeline Management Solutions maximize the operational and commercial efficiency of your pipeline.

Design, Planning and Optimization

Use what-if analysis and long term operational planning to drive down overall energy usage and optimize use of expensive and difficult to maintain pumping and compression systems.

Schedule Activity

Maximize pipeline throughput by scheduling gas and liquids pipelines more effectively and minimize product contamination on liquids pipelines by improving tank utilization and batch interface management.

Manage Pipeline Integrity

Establish better risk analysis practices by implementing a comprehensive pipeline integrity management program that centralizes and stores data from across the enterprise.

Execute Product Movements

Automate all aspects of product movements, from compressor and pump station local automation and control, ESD and valve automation systems, overpressure protection systems, and control room management solutions for supervisory control, operator training and performance.

Liquids Order-to-Cash Management

Administer liquids transportation contracts, capture nominations, capture and correct ticket measurement information, manage the book-to-physical reconciliation process, calculate service charges and invoice customers with greater speed, accuracy and efficiency.

Gas Order-to-Cash Management

Streamline contract management by ensuring volumes are contractually allocated and automatically apply tarrifs, fees and penalties as needed to improve invoicing accuracy.

Operations Management

Complete visibility to all aspects of gas and liquids pipeline operations, including monitoring of line pack and composition as well as liquids pipeline batching and scraper tracking.

Optimization of Complex Midstream Networks

Optimize the entire midstream logistics supply chain by harmonizing scheduling between operational groups and quickly conducting cost / benefit analysis of alternative modes of transport.

Emerson's Pipeline Solutions

Level 3

Enterprise and Operations Management

- Commercial Management (nominations, scheduling)
- Network and Asset Optimization
- Analytics, Visualization and Reporting
- Leak Detection
- Risk Modeling and Analysis
- Operator Training and Performance Management
- Operator Shift Change and Performance Management

Level 2

Automation and Control Systems

- Distributed Control System
- SCADA and Fiscal Measurement
- Main Line Valve and ESD Valve Automation
- Pump or Compressor Station Management
- Asset Health and Performance Monitoring

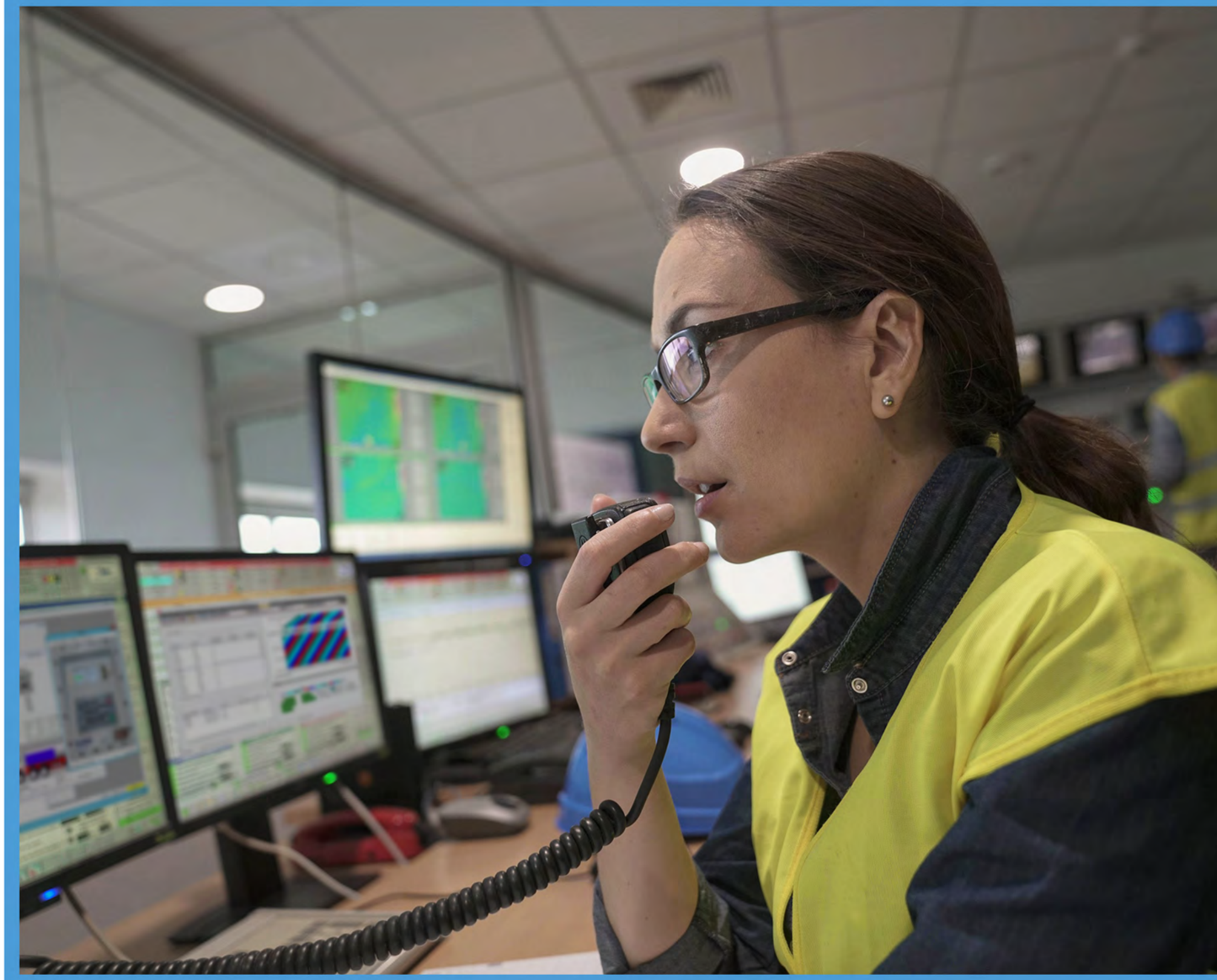
Level 1

Intelligent Field Devices and Instrumentation

- Custody Transfer Metering Skid Systems
- Pressure, Temperature, Level, Analytical and Wireless Devices
- Corrosion and Erosion Monitoring
- Leak Detection

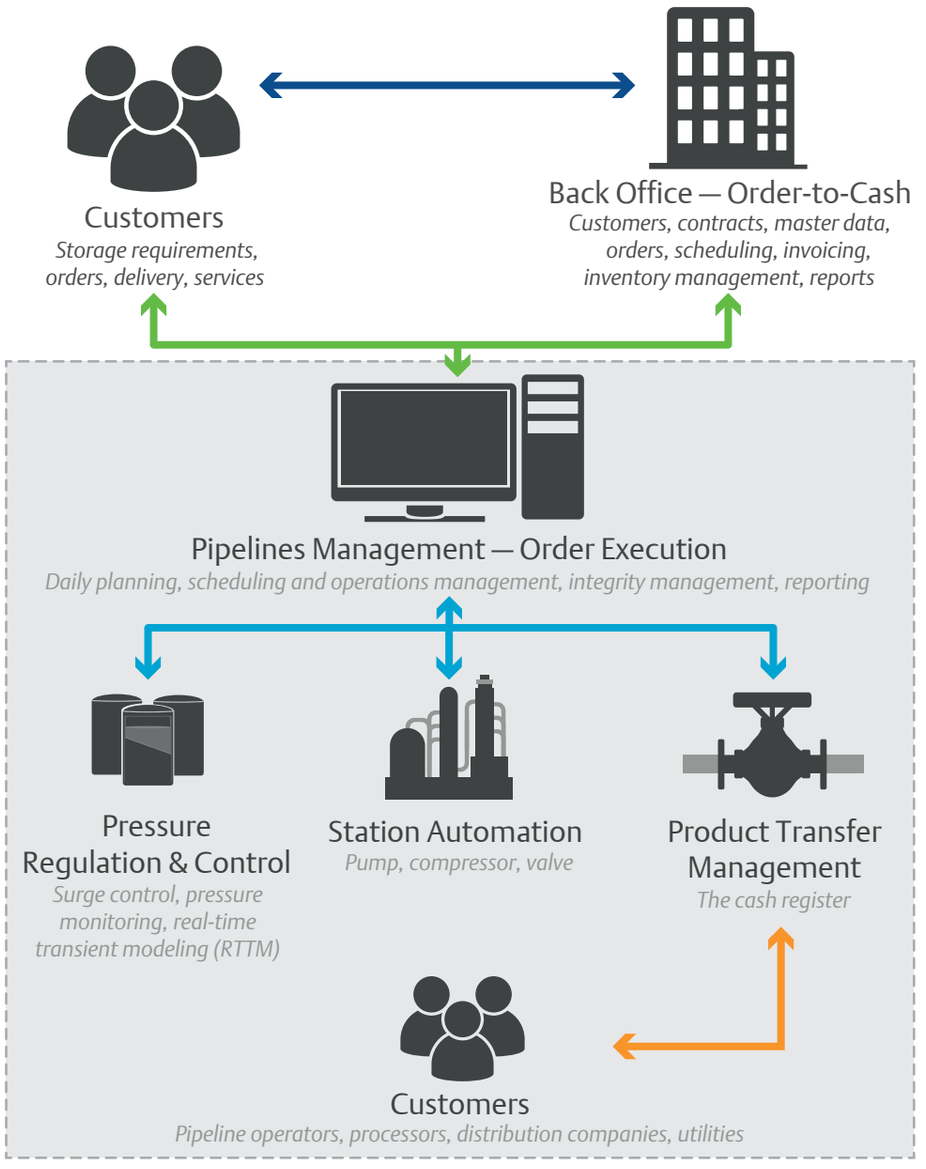
Services

- Project Engineering, MAC, MIV
- Lifecycle Support
- Training and Education
- Consulting Services



Emerson offers integrated solutions spanning from intelligent field devices and instrumentation to automation and control systems, operations management and enterprise management along with a range of lifecycle services options to ensure peak performance and maximum uptime.

Emerson's Pipeline Solutions Landscape



Visit ***www.Emerson.com/PipelinesandTanks*** for additional information.

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