



Pipeline SCADA

UCOS

**We put you first.
And keep you ahead.**



As one of the world's most sought-after pipeline SCADA systems, UCOS delivers performance and reliability improvements that make it a top choice for both greenfield and upgrade projects.

UCOS offers pipeline transmission, distribution, and gathering applications for both liquid and gas products.

The unique, patented functionality built into UCOS allows engineers to develop systems faster and with unprecedented adherence to project specifications.

That results in pipeline SCADA systems that are more consistent and more reliable than systems built with older SCADA technology.

UCOS Pipeline SCADA offers:

- Comprehensive redundancy options
- Efficient and flexible communications options
- Centralized and/or distributed architecture options
- Customized functionality with simple upgradeability
- Solutions for Control Room Management (CRM)

... and more.

World class project execution reduces risk

The world class functionality of UCOS Pipeline SCADA is matched by the world class project team that designs, develops, installs, and supports each system. Our project team is:

- Experienced in the oil, gas, and bulk liquid distribution sectors
- Guided by field-proven, documented project methodologies that are hailed by rigorous customer audits as unmatched in the industry
- Accomplished at delivering projects on time and on budget

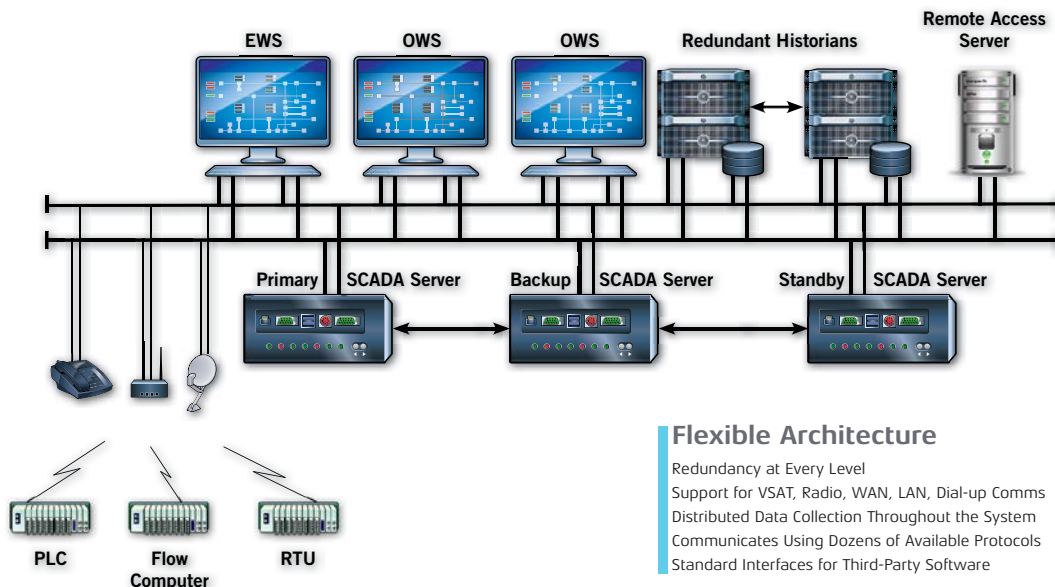
Full range of project services from one company

You know how to run pipelines. We know how to run pipeline automation projects. Moreover, we have all the expertise and resources necessary to deliver your project from start to finish – and beyond, including:

- | | |
|--------------------------------|-------------------------------|
| Project Management | Instrument Engineering |
| System Design Specification | Application Development |
| System Planning | Regional & Worldwide Rollout |
| Standardization & Integration | Training & Documentation |
| System Configuration & Testing | System Maintenance |
| Hardware Procurement | Product & System Support |
| Installation & Commissioning | Long-Term Application Support |

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Flexible Architecture

- Redundancy at Every Level
- Support for VSAT, Radio, WAN, LAN, Dial-up Comms
- Distributed Data Collection Throughout the System
- Communicates Using Dozens of Available Protocols
- Standard Interfaces for Third-Party Software

Pipeline SCADA Applications

- HMI with API 1165 Graphics
- Alarm Management and Analytics
- Trending
- Archiving
- Diagnostics
- Paging and Callout
- Pipeline Reporting
- Scheduling/Nominations Interface
- Valve Tools (next valve, compatible products matching)
- Batch Manager
- Pass-through Port Sharing

Liquids Applications

- Overfill Protection (API 2350)
- Metering / Ticketing / Proving
- Unit Power Management
- Volume Balance Leak Detection

Gas Applications

- Line Pack
- Lost and Unaccounted for Gas
- Park / Loan Analysis
- Chromatograph Data Management

Full Development Environment

- Rich, Full-Color, Hi-Res Operator HMI
- Alarming and Logging
- Historical and Real-Time Trending
- Zero-Configuration Faceplates
- Multi-Layered Security Profiles
- Data Server and Comms Gateway
- Process Historical Archiver
- Regulatory and Sequential Control
- Device and Network Diagnostics
- API and Third-Party Connectivity Options

Comprehensive Support

- Standard 24x7x365 support
- Support available for both the software and the configured application
- In-depth training at your site or ours

Part of a \$6 billion Industry Leader

- FMC Technologies sales and support offices worldwide
- World's Most Admired Oil and Gas Equipment and Services Company (Fortune Magazine)
- Products and services for the entire energy supply chain
- 100+ year track record of excellence

www.fmctechnologies.com/AutomationControl.aspx

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