



# SCADA Systems Engineering

Remote Automation Solutions





# Who Are We?

The Remote Automation Solutions Supervisory Control and Data Acquisition (SCADA) Systems Group provides specialist services in the design, engineering, and execution of turn-key SCADA solutions for the global oil and gas market.

- We specialize in oil and gas production, transmission, and distribution SCADA applications.
- We have engineering staff with extensive experience in the implementation of SCADA solutions across the globe.
- As an Emerson Process Management flow group division and the leading supplier of flow computers, RTUs and presets, Remote Automation Solutions is the single-source provider for your oil and gas, fiscal measurement, and remote automation needs.
- We have engineering staff with more than 15 years of experience each in the delivery of Enterprise database Historians and associated applications on a worldwide basis from 1,000 to 150,000 tags. We enable data to be presented from the field to the corporate offices.

## What We Do

The SCADA Systems group combines engineering excellence, industry experience, industry-leading SCADA products, and global capability to execute global projects regardless of size and complexity.

We believe in teamwork and the development of a partnership with the owner, engineer, contractors, and other suppliers in order to ensure that the systems we engineer not only meets but exceeds the customer's expectations.

### Engineering Services

- Project management
- Design and engineer remote field control, optimization and metering applications, including consultancy services
- Design and engineer networking and telemetry solutions from the field to the control room
- Engineer and configure SCADA host applications
- Design and configure operator interfaces and reports
- Design and engineer interfaces to corporate systems
- Commissioning and post-installation services

## What We Provide



### Upstream Applications

- Wellhead automation and optimization
- Well testing and production metering
- Oil and gas down hole monitoring
- Wireless solutions



### Telemetry Solutions

- Wide-area telemetry SCADA solutions
- Access control and intrusion alert
- Corporate interfaces and web services
- Networking and communications



### Midstream Applications

- Transmission automation
- Pipeline management
- Metering solutions
- Custody transfer and nominations
- Distribution monitoring and control



### Corporate Interfaces

- Export / import SCADA data to and from corporate databases, including PI
- Integrate company business systems into SCADA
- Provide service-oriented architecture solutions with web service delivery

We have the knowledge and infrastructure to execute geographically-dispersed projects – and the project management tools and global resources to support this.

### Global Presence

Our reach and access to resources is truly global. We have engineering presence in Europe, North America, South America, Middle East and Africa, and Asia Pacific.

### The Benefits We Deliver



#### Operations Optimization

We are experts in providing solutions to customers who maintain and control assets in hostile and remote areas, often with power and communications constraints. In spite of these challenges, we provide SCADA Systems solutions to automate and optimize operations and production for our customers.



#### The Right People at the Right Place

Our solutions are engineered for operations that are geographically distributed over large areas. We know how to optimize your most precious resource – your people – by getting the right information, to the right person, in the right format, at the right time.



#### Equipment Optimization

Emerson is a world leader in pre-emptive and predictive maintenance. We continuously demonstrate to our customers a return on investment with enhanced availability, improved production, and reduced costs. These innovative SCADA Systems solutions bring this leading-edge capability out into the field.



#### Availability Optimization

Our industry knowledge, together with our expertise in SCADA, is a differentiating attribute to enable timely project execution and delivery with reduced downtime during commissioning – especially for brown field sites. We also understand the importance of systems availability to a successful operation and can provide enhanced systems with redundancy at the RTU, at the application, within the SCADA host, and in disparate paths of communication.



#### Superior Products

Our solutions are based on leading-edge technology and brand names

- ROC and ControlWave™ RTUs
- FloBoss™ flow computers
- OpenEnterprise SCADA systems
- Rosemount™ instruments
- DeltaV™ DCS and SIS
- AMST™ asset optimization software
- Roxar™ reservoir optimization software
- Micro Motion™ coriolis meters
- Emerson Analytical gas chromatographs
- Fisher™ valves
- OSISoft™ PI data historian



### SCADA Systems Execution Capabilities

- Worldwide turn-key project management
- Prime contracting or integration sub-contracting
- Specification development – FEEDCustom design engineering
- Custom process control software programming
- User interface design
- Panel and control console design and fabrication
- User training
- Installation supervision
- Warranty service, field service, and factory repair

### Emerson – Your Total Solutions Provider

- Wellhead control and optimization
- Reservoir modeling
- Metering solutions
- Remote site control and monitoring solutions
- Remote site security and access control
- Safety shutdown and fire and gas systems
- Wide-area telemetry SCADA solutions
- Tank management solutions
- Gas quality measurement
- Field instrumentation and valves
- Integrated applications and asset management solutions
- Corrosion monitoring, sand monitoring, and pig detection

### Enterprise Data Historian Capabilities

We supply and deliver turn-key enterprise historian solutions based on OSI PI, Oracle, and SQL including hardware, software, services, training, and post-project support. PI provides integration between SCADA, DCS, CMS, LIMS, and ERP systems, acting as a single source of process data for use in the office environment.

### Value-added Applications

- Electronic shift log
- Daily operator routines
- Chemical injection monitoring
- Well testing
- Gas lift optimization
- Equipment performance monitoring
- Tank data systems
- Tank gauging systems
- Chemical reporting and corrosion monitoring
- Sharepoint web portals



# Find us around the corner or around the world.

For a complete list of locations, please visit us at [www.Emerson.com/RemoteAutomation](http://www.Emerson.com/RemoteAutomation).



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