

SCADACOM

by
WILLOWGLEN

Total SCADA Solutions for the Oil & Gas Industry



Innovative • Reliable • Customer Focused

SCADACOM 5



SCADACOM 5 DESCRIPTION

SCADACOM 5 is a high performance, effective and reliable real-time monitoring and control system. With installations world-wide, SCADACOM's advanced technology offers:

- High performance, multi-tasking, real-time processing.
- Intuitive operator tools: advanced graphics, operator logbook and shift handover summary, automated review and historical playback module.
- An integrated alarm management environment.
- Training simulator and operations emulator.
- Industry-specific applications.
- Distributed computing architecture with expandable capacity and performance.
- Fault tolerant operation.
- Support of leading communications protocols.
- Fail-over and load-balancing between servers
- Support for multiple control rooms including remote disaster recovery control centres.
- Hierarchical implementation links site, regional and centralized control rooms.
- and more

SCADACOM is designed using API standards and industry best practices

System Design – Speed and Reliability

The SCADACOM platform is built around an extremely fast object oriented database engine that is notification-driven to provide quick response, and reduced system load. The SCADACOM platform is designed from the ground up as a Fault Tolerant system that goes beyond Dual Redundant to offer N-way redundancy for all services.

Operator Graphics

SCADACOM complies with API 1165 "Recommended Practice for Pipeline SCADA Displays", Human Factors Principles, and Industry Best Practices. The Operator Displays have the ability to use the advanced features available on today's video cards. As a result, the schematic displays can display anything from simple grey-scale schematics to more life-like colored 3D textures and advanced animations.



SCADACOM 5 Supported Hardware

SCADACOM series 5 Servers runs on Intel, AMD and SPARC Processors and on multiple Operating Systems including Solaris, Linux and HP-UX. In addition to these Unix platforms, the Operator workstations also supports interfacing to the system from a Windows environment. A secure Web interface is also supported. SCADACOM 5 supports all security features in earlier versions of SCADACOM.

Integrated Alarm Management Environment (IAME)

SCADACOM 5 provides a firm foundation for implementing and sustaining an effective Alarm Management program that conforms to 49 CFR Part 192 and 195 for Pipeline SCADA, ISA-18.2 Management of Alarm Systems for the Process Industries, and EEMUA-191 Alarm Systems - A Guide to Design, Management and Procurement. In addition, Willowglen has designed IAME by incorporating input from industrial advisory boards and experts in the area of Human Factors Design.



Operator Watch – Logbook and Shift Summary (OWLSS)

SCADACOM 5.1 Operator Watch – Logbook and Shift Summary Application is an electronic operator logbook and shift hand-off tool. OWLSS allows for the easy and effective recording of significant information and events which occurred during a shift - for shift hand-off review purposes for the next operator and supervisor, as well as for general historic value and investigation.

Automated Review Module (ARM)

SCADACOM 5.1 Automated Review Module (ARM) is used to investigate past operational situations and sequence-of-events for purposes of continuous improvement or incident review – consistent with the principles of operational excellence. ARM provides a means to record in fine detail all of the data in the SCADA system – and then at a later point step through the information at a rate suitable for review, so that the exact sequence of events can be fully understood. ARM ‘arms’ your organization with information, and provides an easy and effective way to help personnel ‘experience’ and understand past events and actions - in a format that emulates the operators’ working environment.

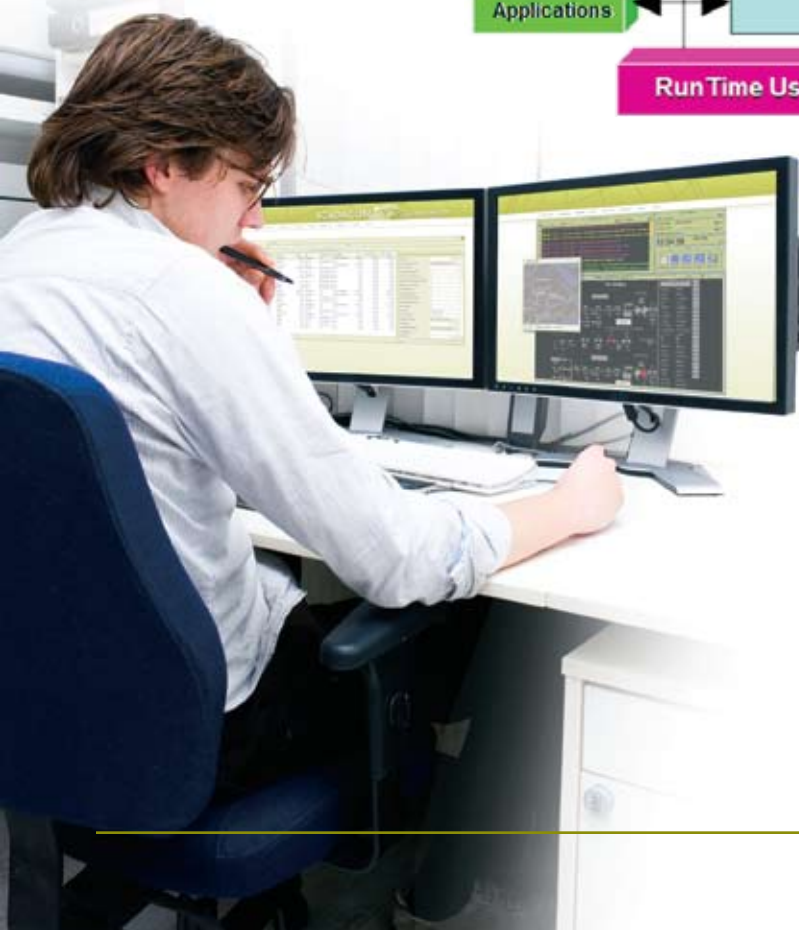
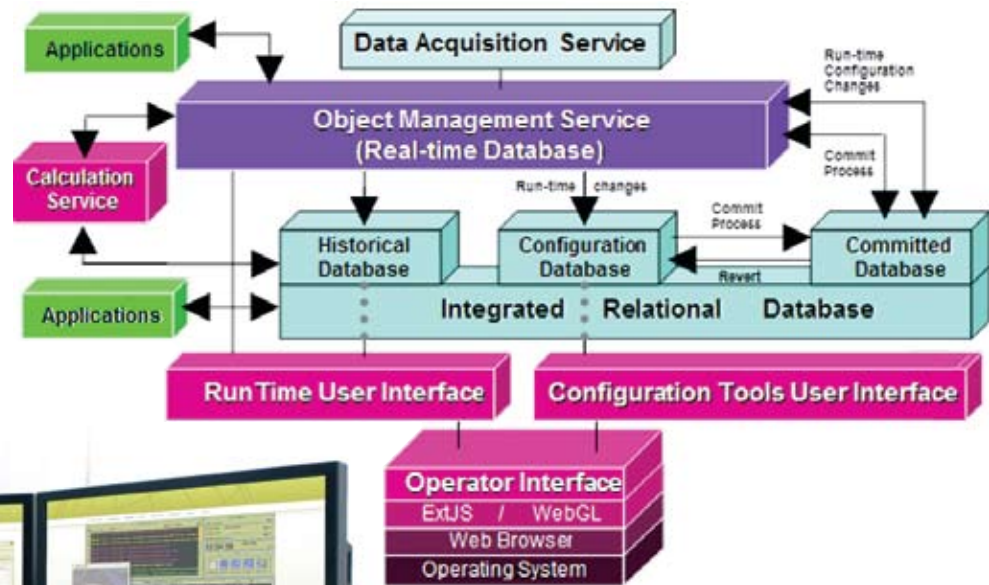
Communication Protocols

SCADACOM 5 supports industry standard protocols such as Modbus and IEC870, as well as many non-standard interfaces developed by Willowglen and third-parties. SCADACOM 5 provides excellent logging and debugging for supported protocols, making troubleshooting communications with third party devices easy.

SCADACOM 5.1 supports OPC UA connectivity.

System Configuration and Programming

SCADACOM 5.1 comes with a standard set of configuration tools and wizards designed to make it easy to configure the system. Together with the ability to export sections of the database to tools like Excel, it is easy to configure and maintain SCADACOM. SCADACOM’s symbol library ensures a quick start to any project.



Emergency Backup Centers

SCADACOM supports emergency backup center configuration through the Emergency Backup Center Module.

Training Simulator and Operations Emulator (TSOE)

SCADACOM 5.1’s Training Simulator and Operations Emulator (TSOE) is an optional package which is used to train SCADA Operators. TSOE provides the means to take operators through standard operations as well as unusual events - providing a safe and effective way to give operators the experience they need, in an environment which is identical to the live system.

Total SCADA Solutions for:

- Oil & Gas
- Power
- Utilities
- Transportation

Industry Specific Applications

With 40 years of experience in the Pipeline and Oil & Gas Industries, Willowglen has developed and supports many internal and 3rd party industry specific applications, such as Prime Line and Leak Detection.

SCADACOM is extremely customizable, allowing an optimal solution for every customer. Customer and value-added supplier applications can run on the SCADACOM environment.

A World of Experience

SCADACOM is installed around the world in Pipeline, Power, Utilities, and Transportation applications. Our customers and partners have successfully used SCADACOM to address some of the world's hardest automation problems and most demanding requirements.



**WILLOWGLEN
SYSTEMS INC.**
Total SCADA Solutions

Phone: 780.465.1530 Fax: 780.465.0130

info@willowglensystems.com
www.willowglensystems.com

8522 Davies Road, Edmonton, Alberta, Canada T6E 4Y5

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