ScadaPRO



What is \$cadaPRO?

Scada Pro is an advanced real-time information system consisting of a set of integrated modules providing automatic data acquisition, monitoring, recording, trending, man-machine interfaces, networking, report generation and process control. It is readily adaptable to a wide range of engineering applications, including:

Process Monitoring and Control
Oil and Gas Well Rig Monitoring
Well Completion and Stimulation
Punping Systems
Mud Logging and Drilling
Energy Management
Power Generation and Transmission
Mechanical and Electrical Testing

\$oftware for Real-Time

Environmental and Temperature Monitoring Building Management Systems Laboratory Testing Machine Efficiency Calculation and Downtime Recording Wastewater Management Remote Asset Management Structural Testing

Advanced data acquisition and

logging capabilities Logs to files or databases

Features

Advanced alarm processing

Real-time calculator with free

form expression.

Real-time data and alarm monitoring as well as historical trending

Standard data export to multiple HMI display builder including rich

Full client-server architecture over

Web service option to allow

Support for LAN Desktop, Remote Desktop, Internet Explorer and

firewalls over the Internet

Supports the Excel RTD and OPC data access standards

Automatic start-up without operator intervention

Runs on both legacy (XP) and current versions of Windows Available in 32-bit or 64-bit

Integrates fully with Windows security to only allow access to

authorised users Site to Office option to stream

Add-ons for Mud Logging, PID control and Gas Chromatograph

data for viewing by staff and

customers

measurement

Microsoft Platform Support

ScadaPro is optimised to use the powerful real-time multi-tasking features of Windows platforms and can be installed to run as a 32bit or 64-bit application. The fully implemented client/server architecture provides the means by which data displays, and control can be distributed over a

standard network or the Internet.

The system requires a server licence and additional client licences can be purchased as required.

ScadaPro Client allows the operator to configure and monitor the system either locally

or over a LAN/WAN or Internet.

The ScadaPro server is an

embedded service and aut om ati cally starts with no operator interaction

Multi-threaded applications avoid performance bottlenecks. Real-time high performance

updates over network for all

 $servers\,on\,single\,cli\,ent$

users on the system ScadaPro runs on both legacy (XP)

and current versions of Windows and Windows Server platforms. Viewing and selection of multiple

screen or window. Masks components e.g. I/O devices, loggers or channels using

Windows security so operators only see the components they can

Read-only security allows operators to view but not change configuration.



ScadaPro

Internet Explorer

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Support

Calculated Channel

1

Trends

(scadaPRO)

Data Logging

Data Export

Data Acquisition

Acquisition and Process Control



Utilities The ScadaPro suite includes a range of add-on and utilities applications that simplify tasks. Licensing

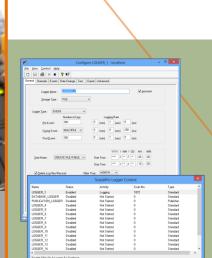
Single machine or network licence keys. Keys can be moved from machine to machine. Licences can also be upgraded in the field, either manually or online.

Audit Trail

Full audit trail of all configuration acquisition, data processing, logging and value changes.

Data Export and

ScadaPro supports data export from log files to standard spreadsheet and report formats. This allows clients to create their own Reports. Excel templates are supported to define report layouts.



Quadrie Enable Cycle Force Lipse Choe Help

Data Logging/ Historian

ScadaPro's data logging functionality is second to none. ScadaPro's data collection and logging capabilities provide the power and flexibility to effectively record all important process or environmental data.

Multiple independent data loggers with automatic start

'Period', 'Event' and 'Period until Event' modes with separate Pre, During and Post logging rates

Logging rates up to 1ms Independent groups of channels

can be logged with up to 10,000 channels per group Automatic scheduling of log cycles to log according to work shifts;

Automatic archiving of log files at end of shift and continuous disk space checking

including hourly, daily and weekly

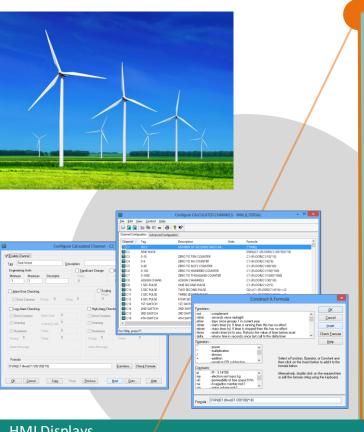
Automatic generation and email of spreadsheets at end of shift Operator entry of storage

locations e.g. product codes or Text logging including definition of

regularly used text logs

Supports multiple databases including Access, SQL Server, Oracle and Microsoft Excel using

Disk checking facility reports error when disk spaces goes below a configured threshold



Real-time Calculator

The real-time calculator makes it possible to create and calculate data directly from signal inputs. Free form calculation entry

inclu des: **Built-in constants**

functions

sequences

Statistical & logarithmic functions Filtering, counting, and Boolean

 $\label{eq:mathing} \textbf{Math and trigonometric functions}$ Timer and time/date functions

Calculations can be cascaded together to form complex logical

Calculation results can be sent to output channels for direct and supervisory control

All calculated data can be logged, displayed, animated, or alarm

processed Support for Techware steam tables

Alarm Processing

ScadaPro includes advanced alar processing and management. Each channel can be given unique high and low event alarm and $\,$ warning conditions. Multiple configurable alarms on the same channel can be avoided

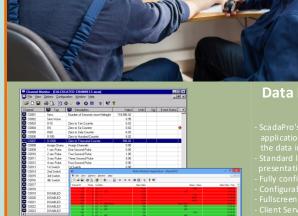
with alarm hysteresis and alarm delay. Each alarm condition can be given a priority (1-255) and an associated block of text To be displayed in

alarm conditions.

Alarm channels can be linked to a common alarm output channel for annunciation purposes, or to parts of the process or the plant. Alarm annunciation is supported and includes; digital output, email, SMS, audio and printer. The in-built alarm logger and

printer records all alarms, the time they occurred and the time they were acknowledged.
Different groups of alarms can be

viewed in different windows. Features active document technology That allows clients to view alarms in a web browser and within Configurable Monitor Alarms can be acknowledged independently or as a group



Data Monitoring



HMI Displays

Configurable Monitor lets users develop the Human Machine Interface (HMI) to processe and provide a dynamic representation of the phenomena being monitored.

Full drawing and editing tooks Simple linking of dynamic objects to real time data

Suite of real-time instrumentation controls with the ability to customize the attributes of each

Angular and circular gauges Ball and bitmap indicators

Navigation buttons to access other monitors or run other task including trends, spreadsheets,

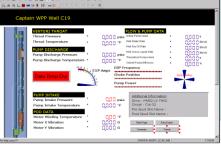
Easy switching between configuration and value

Control loggers and perform calibration directly from the HMI

A number of separate monitors can be displayed on the screen simultaneously

spreadsheets, alarms monitors, channel monitors and trends within Configurable

Fullscreen mode and anchor points to display

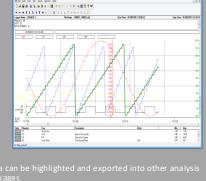


Trending

Check Boxes

Object grouping

56 18 19c 5c 10c 10ct 10ct 10c



Active document technology allows viewing of





Connectivity ScadaPro uses the latest industry

SO AP Web Services ScadaPro's web service allows it to

built on Web browser SOAP/XML standards that allow a ScadaPro client to communicate securely with its ScadaPro server over the Internet using http. OPC (OLE for Process Control) is an industry standard created from

collaboration between a number a

leading worldwide automation and hardware software suppliers with Microsoft. ScadaPro 2.0 comes with an OPC Client as standard allowing data from 3rd party OPC systems to be acquired seamlessly. The optional OPC Server allows 3rd party OPC applications to connect to ScadaPro data. ScadaPro is OPC compliant.

such as Access, Oracle, SQL Server ScadaPro includes Excel RTD and support for export to XLS/XLSX

files. Excel RTD is a method of displaying dynamic real-time data in Excel.

System Error Processor

A mechanism is provided for $recording \ if \ a \ system \ error \ has$ occurred. In order to be able to handle system errors as alarms and to be able to monitor systems errors

processor with a fixed set of

channels is provided.

PID Controller An optional Proportional Integral Derivative controller processor is available. It offers:

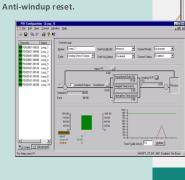
Control for closed-loop systems Block diagram, bar graph, and strip

chart displays for each control loop Dynamic viewing of change and

Bumpless transfer between manual and automatic modes.

Support for user-supplied

algorithms (COM DLLs)



Chromatograph



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