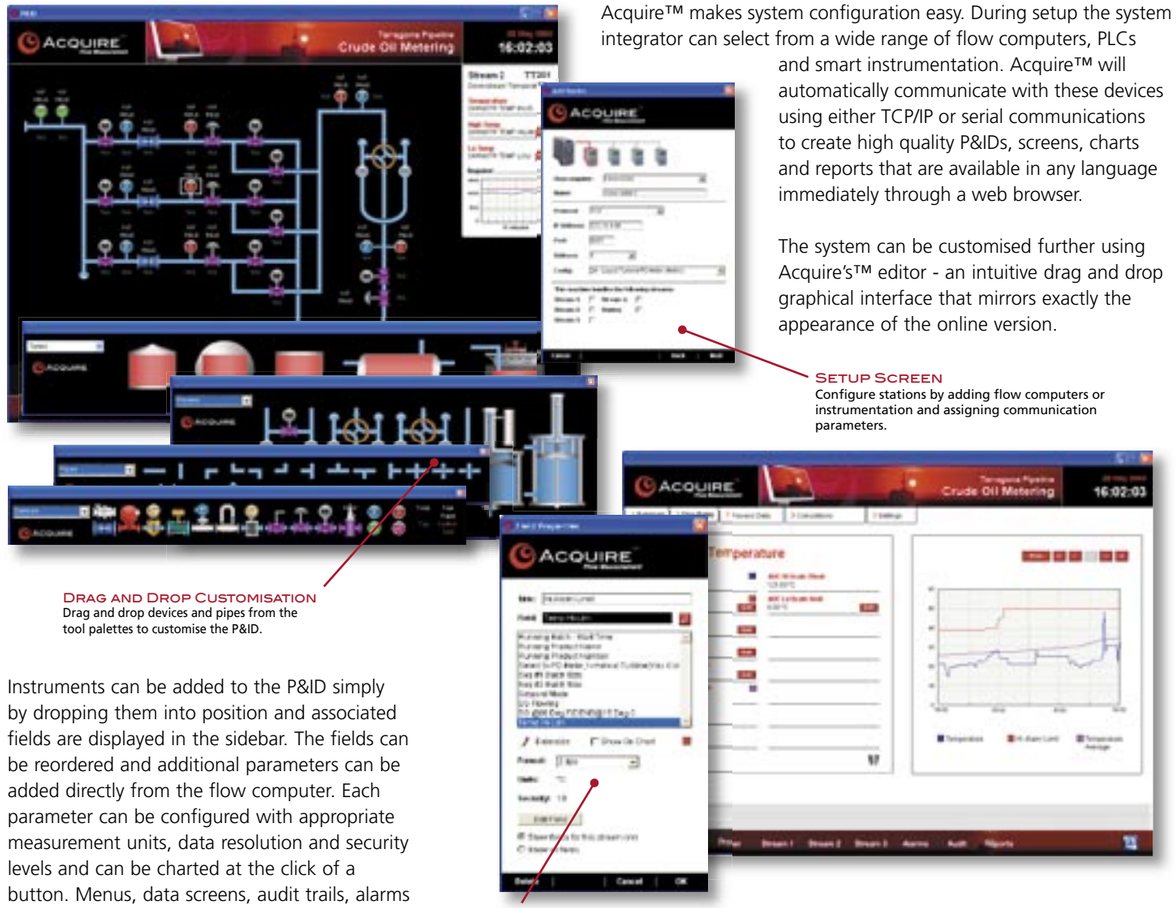
ACQUIRE™

Alderley plc

...the solution to web enabled data acquisition and control

ACQUIRE™ CONFIGURATION

Ambrit's Acquire™ sets new standards for the rapid deployment of data acquisition and control systems. Acquire™ enables system integrators to create complex interactive systems quickly and without the need for custom software.



Acquire™ makes system configuration easy. During setup the system integrator can select from a wide range of flow computers, PLCs and smart instrumentation. Acquire™ will automatically communicate with these devices using either TCP/IP or serial communications to create high quality P&IDs, screens, charts and reports that are available in any language immediately through a web browser.

The system can be customised further using Acquire's™ editor - an intuitive drag and drop graphical interface that mirrors exactly the appearance of the online version.

SETUP SCREEN
Configure stations by adding flow computers or instrumentation and assigning communication parameters.

DRAG AND DROP CUSTOMISATION
Drag and drop devices and pipes from the tool palettes to customise the P&ID.

Instruments can be added to the P&ID simply by dropping them into position and associated fields are displayed in the sidebar. The fields can be reordered and additional parameters can be added directly from the flow computer. Each parameter can be configured with appropriate measurement units, data resolution and security levels and can be charted at the click of a button. Menus, data screens, audit trails, alarms and reports can all be customised with the same level of ease.

FIELD SELECTION
Any field from the flow computer's Modbus map can be added to the layout and included on the chart.

ACQUIRE™ ONLINE

Acquire™ can be accessed locally using the server VDU and keyboard or using a standard web browser via private Intranet networks or through a secure Internet connection, allowing distributed multi-user access.

The home page is the station P&ID. Selecting an icon shows detail for that instrument in the sidebar. With sufficient access privileges editable parameters, alarm thresholds, set-points, etc. can be adjusted in the flow computer in real time from the sidebar. The ten most recent alarm events are annunciated in the alarm dock audibly and visually. This data can be accessed simultaneously in any language dependant on user preference.

The navigation bar enables movement between sections of the system. Sections can include expandable menus, providing access to further information. Detail of measured and calculated variables from the instrumentation is available in tabular and, where applicable, chart formats.

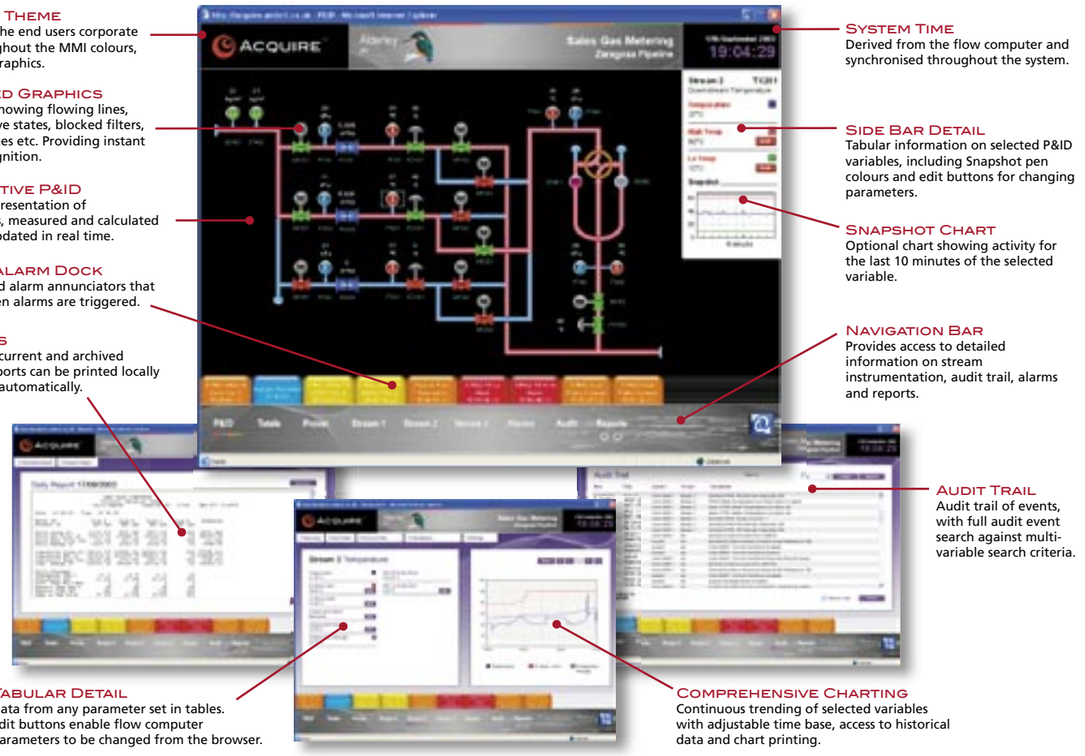
CUSTOM THEME
Reflecting the end users corporate style throughout the MMI colours, fonts and graphics.

ANIMATED GRAPHICS
Live pipes showing flowing lines, moving valve states, blocked filters, dp cell ranges etc. Providing instant status recognition.

INTERACTIVE P&ID
Graphic representation of instruments, measured and calculated variables updated in real time.

ACTIVE ALARM DOCK
Time tagged alarm annunciators that appear when alarms are triggered.

REPORTS
A range of current and archived reports. Reports can be printed locally or emailed automatically.



SYSTEM TIME
Derived from the flow computer and synchronised throughout the system.

SIDE BAR DETAIL
Tabular information on selected P&ID variables, including Snapshot pen colours and edit buttons for changing parameters.

SNAPSHOT CHART
Optional chart showing activity for the last 10 minutes of the selected variable.

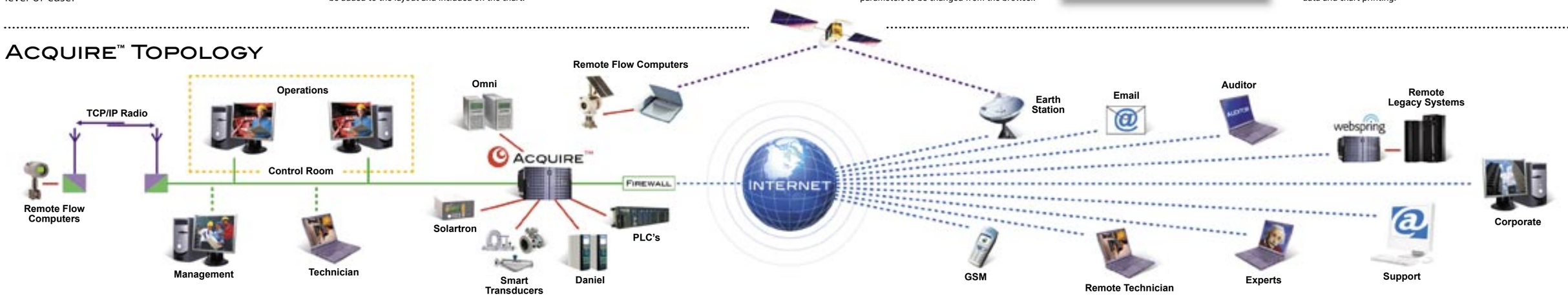
NAVIGATION BAR
Provides access to detailed information on stream instrumentation, audit trail, alarms and reports.

AUDIT TRAIL
Audit trail of events, with full audit event search against multi-variable search criteria.

TABULAR DETAIL
Data from any parameter set in tables. Edit buttons enable flow computer parameters to be changed from the browser.

COMPREHENSIVE CHARTING
Continuous trending of selected variables with adjustable time base, access to historical data and chart printing.

ACQUIRE™ TOPOLOGY



ACQUIRE™

....the solution to web enabled data acquisition and control

Using Internet inspired graphics and communication techniques Acquire™ takes real time data acquisition and control to a new level of performance, reliability and secure accessibility.

In the past, Supervisory Control and Data Acquisition (SCADA) systems have tended to be complex and typically used communication protocols and graphics technology proprietary to each individual supplier. Most of them were designed before the Internet revolution i.e. before many of today's software standards existed. Acquire™ is latest generation software, based on current Internet standards - the result being a Data Acquisition software product for a wide variety of industrial uses, which is fully compatible with modern LAN, Intranet/Internet and database technologies.

The Acquire™ implementation described here focuses on Flow Measurement in the Oil and Gas industry where a diverse range of smart instrumentation and even smarter RTUs are deployed for the measurement and control of hydrocarbon products. As these measurement and control technologies have evolved, the requirement to access data, control events, and distribute information world-wide has become a major challenge.

Acquire™ is the leading edge solution, providing a secure, real time link between process control instrumentation and the Internet. This allows operations and management to interact with systems locally or remotely using a standard web browser.

Acquire™ is a server software product which runs on a standard PC under Windows® 2000 or Windows® XP. The PC connects to RTUs, flow computers or directly with smart transducers using their proprietary hardware and software protocols. Acquire™ collects data and stores it in a local database, which also acts as an Internet server. This server transmits the data on request, using secure Internet technologies, to an operator anywhere in the world. Acquire™ exploits the latest Radio and Satellite TCP/IP communications capability allowing access to remote flow computers and RTUs.

Subject to satisfying the many access permissions, an operator using a conventional browser, simply logs on to the URL of the Acquire™ server to gain access to all the data via Acquire's graphic rich interface. An operator from any location worldwide can have real time access to measurement systems in many locations. Data can be conveyed in both directions - in addition to viewing flow measurement data, constants can be downloaded into a remote flow computer (or smart transmitter), valves can be controlled, etc. - all this with only a web browser.

World Wide Communication - This same connectivity allows the distribution of data quickly and easily from each measurement location to other world-wide locations. Acquire™ can automatically format production reports, operation status, alarm logs and a host of other detailed information for distribution to personnel as attachments via e-mail and directly to other systems by file transfer.

Multi-Lingual - Acquire™ is multi-lingual. The primary language is English, but Acquire™ can operate simultaneously in any language dependant on access privileges. These languages can include Chinese, Arabic, Japanese and Cyrillic. This applies to all aspects of the HMI, effortlessly switching between languages as users with different preferences access the system.

No Software - Acquire™ takes rapid deployment to the limits. Auto-configuration and drag drop editing make custom software redundant. This is extended to ongoing support, allowing Acquire™ systems to be maintained remotely regardless of location and reducing cost of ownership to a minimum.

Dependable Platform - Acquire™ is powered by Ambrit's Webspring™ software technology, providing a proven dependable technology foundation for this leading edge measurement and control supervisory system.

Developed By

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System Integrator

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Web Based

- Internet services using integrated Webspring™ server
- Intranet private networks
- Browser access using Internet Explorer® 6.0, Firefox® and Safari
- Fully HTTP 1.1 standard compliant

Secure

- Integrated 256 Bit SSL Encryption
- Digest Authentication for secure password control
- Multi level user access
- RTUs are isolated from the network

RealTime Acquisition

- Intelligent polling of RTUs
- Fast performance - Low bandwidth connection
- Flicker free dynamic page refreshing
- Adjustable network optimisation

Communications

- Duty/Standby flow computer capability
- Dual redundant Acquire™ server capability
- Modbus server
- OPC server

Graphic Rich Interface

- Easy to use menu driven interface
- Multi-lingual
- Interactive Mimic Diagrams
- Graphical Data Snapshots
- Chart Recorder plots any RTU data point
- All RTU fields can be viewed remotely
- Alarm Dock display of latest alarms

Reports

- Fully web based reports
- Fully searchable audit trail
- Alarms list
- Send via Email as PDF or Excel® attachments
- Integration with Metrology™
- Multiple printer support
- Batch reporting

Configuration

- Simple installation and setup
- Automatic configuration
- Custom layouts of every screen
- WYSIWYG editors with drag and drop interface
- No custom software required
- Secure, remote, world-wide administration and support

Further information on Acquire™ is available from Ambrit's web site:

www.ambrit.co.uk/acquire

An animated presentation describing the functionality, editors and supporting technology is available on the web site.

Register on the site to arrange a personal online demonstration of an Acquire™ system on your computer.