

Metrolog booth # 4044

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of pressure, temperature and flow

with downhole and surface
electronic memory recorders
& real-time gauges

& slick line depth, speed and tension control



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FAST/TOOLS developed to grow with client needs

Many global industrial companies and utilities rely on Yokogawa's FAST/TOOLS system to deliver high levels of data integration and guaranteed data integrity demanded by these companies.

Yokogawa says that the secret to FAST/TOOLS' success in these critical applications is the highly reliable design, combined with exceptional performance and the online con-

figuration capability. This adds up to support for the highest levels of efficiency and outstanding quality in industrial processes.

The product's open architecture provides easy access to the system. It allows the user to integrate extra functionality in addition to a wide range of standard functions. The design is based on open client/server architecture and supports standards such as

ODBC and OPC.

Also significant for FAST/TOOLS is the tool's availability on industry-standard operating systems, including Windows, HP/UX, IBM AIX, Sun Solaris and Linux. Also, TCP/IP network communications support a wide variety of distributed systems over either LAN or WAN.

The tool is scalable from less than a hun-

dred to more than a million I/O points, and supports multiple architectures from single node solutions to multi-node client/server systems.

The company developed FAST/TOOLS with a number of significant issues in mind, one of which is to provide a system that can start small and can easily grow with client needs—short term and long term. Details on the tool can be found at the Yokogawa OTC booth.

OVERVIEW

FAST/TOOLS has a true client/server architecture that is not limited to stand-alone stations and allows distributed functionality. Front-end nodes help the user reduce the load of the host by pre-processing data on remote locations and passing through only relevant data. The "server" systems can run one or more I/O-drivers per node.

For example, a configuration could be an application running up to 70 I/O-drivers at the same time on one node, with only three telephone lines available to connect to the 70 remote PLC devices.

Where system availability is a prime

Continued on page 29

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Visit the Worldwideworker Recruitment Pavilion!

At the OTC 2008 Worldwideworker is hosting their Recruitment Event in booth 1167 and 1270. The following companies will actively be looking for suitable candidates. They will be presenting new and exciting job opportunities, and would be happy to meet you! Do you want to find out what you're worth? Come and talk to the recruiters face to face!



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The Worldwideworker.com website is a global leader in energy jobs with millions of page views per month. Its design allows jobseekers to easily search for jobs and employers to effectively brand their company, by posting jobs and placing banners. In addition, Worldwideworker offers companies a wide range of services to help them facilitate their recruitment needs, such as Recruitment, Manpower, Executive Search and Recruitment Events.

For more information contact us at info@worldwideworker.com, visit our booth, check our website or call the office nearest to you:

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Houston	Tel: + 1 713 780 4890	Moscow	Tel: + 7 495 617 0465

Booth 1167

www.worldwideworker.com

Features of Yokogawa's FAST/TOOLS:

- Multi-page alarming functionality with sorting options based on priority or time, adjustable acknowledging/reset options, rerouting of alarms, paging use for alarming
- Object oriented engineering, make one class and use it as many times as needed
- Object oriented graphics; no need to update symbols separately, one change in a symbol updates all copies
- Predefined trend-pages for most common trending configurations
- Online editing that can add or remove graphics, item (tag-) definitions, reports, I/O-drivers
- Communication scheduling, based on time or availability of communication lines for distant PLC/RTU-stations
- Automatic data-archiving of historical data on tape and cleanup of disk space
- Unlimited I/O-count (the largest working system has over a million database items). Up to 255 different I/O drivers can run in parallel on one machine
- Open interfaces (XML, OPC and ODBC) used for reporting/ MIS-functionality/Web-enabling
- Report distribution to remote locations
- Fine-tuning tools to optimize performance, like coping with bursts
- Communication links via traditional copper wires, high-speed optical fibers, radio or satellite
- Time synchronization from GPS or PLC/RTU, including time distribution to other nodes.

Uncontrolled Emission - Flowline Washouts - Choke Optimization ???

While a high velocity well effluent carries a load, Frac Sand or even Produced Sand, the potential exists to erode surface flowlines. To combat flowline washouts, Fardux have developed two new products: SandSnoop and WallWatch. Data is displayed, recorded and plotted on our award winning IDEA Enterprise software suite either in isolation or alongside all of your surface and downhole pressure, temperature and calculated fluid flow parameters.

WallWatch: Safer all round

Realtime Wall Thickness monitoring system

Wallwatch uses an array of sensors clamped around the pipe to produce an accurate wall thickness profile. Each mat contains 14 individual acoustic transducers capable of measuring wall thickness between 5 to 25 mm.

SandSnoop: Knows what to listen for

Realtime Sand Particle monitoring system

SandSnoop non-invasive acoustic probe hears even the most minute sand impingements while at the same time filtering out unwanted background noise.



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Visit booth 4582

ALL THE DATA, WHEN AND WHERE YOU WANT IT

FAST/TOOLS cont'd from page 28

issue, the tool can be configured to run in a redundant configuration. Several redundancy concepts are available, illustrating the flexibility of FAST/TOOLS. Further, networking can be configured redundantly to include redundant networks between server and clients and/or between server and PLCs or RTUs.

FUNCTIONALITY

Key functions are provided that allow data acquisition with field and real-time event management for storing the information. It also provides system installation and a configuration tool, a data management system and real-time networking for communication between the modules.

Functional modules of FAST/TOOLS include:

- Configuration and graphical presentation
- Alarm management and SOE
- History management
- Object oriented engineering language
- Access to other applications (XML, OPC and ODBC, Java, HTML)
- Reporting and trending
- Operator action logging
- I/O communication
- Dedicated application software
- Audit trail
- Playback capabilities.

Additional modules can be added as a plug-in to the networking layer to increase client specific functionality. Examples are client specific calculation, optimization modules or HMI.

ENGINEERING CAPABILITY

Yokogawa offers a complete set of professional consulting services that can be tailored to specific needs. Plus, the company's consultants can provide services that offer quick, cost-effective methods to ensure success in developing and implementing FAST/TOOLS systems.

These professionals, consisting of senior developers and expert application builders, are experienced in conceptual, detail application and third party software integration.

Yokogawa consulting services are available in any form that fits the user's unique configuration and programming needs. Services range from simple, day-rate advisory to com-

plex, ongoing projects, and assistance can be provided for any or all phases of your integration process, from conceptual study to implementation and maintenance.

APPLICATION

A unique feature allows the user to keep application specific data apart from the FAST/TOOLS environment. Loading this data in one turn is a quick way of loading the entire configuration, without using HMI. Even while the FAST/TOOLS appli-

cation is running, this feature can be used to load additional data. The big advantage of developing and keeping the data apart from the FAST/TOOLS environment is that the user can perform version management on the data.

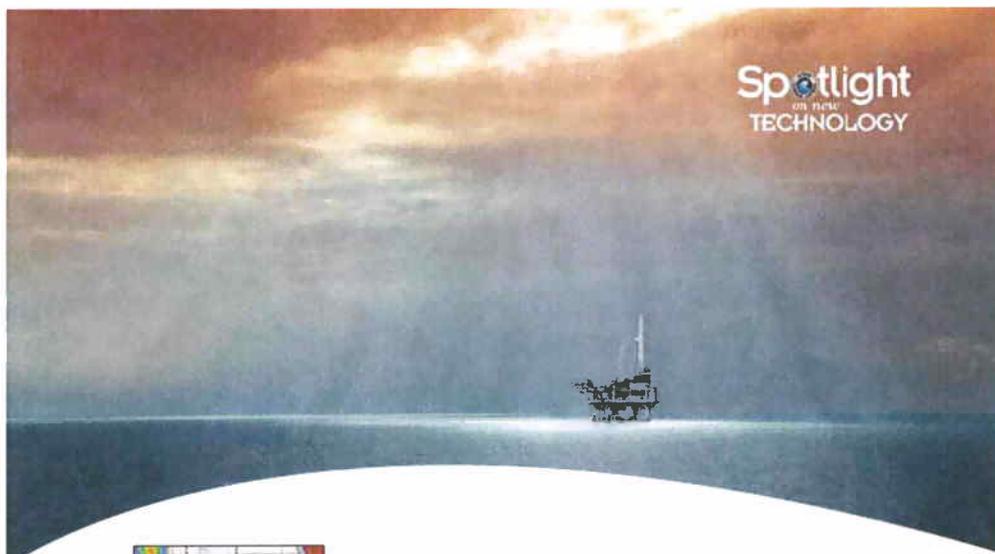
The user can "quickload" configurations online without stopping the system. While loading the configurations, FAST/TOOLS continuously checks the "quickload" data. Errors in configurations will be reported instantly, stopping the loading process or skip-

ping the error if necessary.

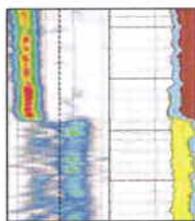
In addition, there is a range of documentation available for the FAST/TOOLS package, featuring manuals that are written for two user groups: operators and system managers and system integrators and programmers.

* FASTTOOLS is a trademarked brand of Yokogawa and can be seen at Yokogawa's Booth 5577.

Baker Hughes Displays New Technology Winners



Spotlight
ON NEW
TECHNOLOGY



MagTrak Petrophysical Answers While Drilling

The new MagTrak™ LWD service from INTEQ provides magnetic resonance answer products, including formation porosity, bound fluid volume, free fluid volume, permeability, hydrocarbon fluid identification and T₂ distribution spectrums. These real-time petrophysical answers help the asset team optimize wellsite efficiency, safety, and ultimately, hydrocarbon recovery.



RAM Rotating Self-Aligning Multilateral System

The RAM™ System from Baker Oil Tools is the first and only multilateral system that allows continuous rotation of the lateral liner while simultaneously and reliably landing a completion system that can mechanically support the lateral junction. The RAM system provides mechanical support, selective control and access to all lateral junctions.

To discuss these OTC Spotlight on New Technology winners with Baker Hughes experts, visit Booth 4241

SPE MEMBERSHIP UP

Total professional and student membership in the Society of Petroleum Engineers (SPE) grew 8% to a record 79,300 members worldwide in 2007, including an increase in members under age 35. SPE includes engineers, scientists, technicians, managers, operators, educators and other professionals who work in the global upstream oil and gas industry, as well as students who are studying petroleum engineering or a related field. Membership increased in virtually every region of the world, with the largest growth occurring in the Middle East, including India, which increased 15%.

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