

The FAST/TOOLS package is a powerful, state-of-the-art, flexible, distributed Supervisory Control and Data Acquisition (SCADA) system. It is one of the leading standard system packages for SCADA systems and available on a wide range of industry standard computer systems.

The FAST/TOOLS package has been developed in the past twenty years by combining our expertise of SCADA systems with the requirements from our users and leading industry.

Many industries and utility companies with a need for data integration and guaranteed data integrity, use the FAST/TOOLS package from Yokogawa in their applications.

FAST/TOOLS is used successfully in critical applications due to its very stable design, support



# FAST/TOOLS

## The modular approach to industrial automation

of redundant systems, its exceptional high performance and the possibility to configure or adapt the configuration on-line. These properties contribute to high efficiency and high quality production processes.

### *introduction*

FAST/TOOLS is developed with a number of key issues in mind, one of which is to provide a system that can start-off as a small system and which can easily grow with the needs of your company, both short and long term. This philosophy guarantees against premature obsolescence.

The commitment to be a hardware independent supplier means commitments to standard operating systems, stan-

dard network protocols, standard user interfaces and standard software development tools.

### *Open client server architecture*

The open architecture of FAST/TOOLS provides an easy access to the system, it allows you to integrate extra functionality next to the wide range of standard functions. FAST/TOOLS is designed to the rules of an open client server architecture and supports standards such as ODBC (Open Data Base Connectivity). FAST/TOOLS is available on the industry standard operating systems such as Microsoft Windows-NT, HP/UX, IBM AIX, and SUN SOLARIS.

TCP/IP network communications are



### FAST/TOOLS functions and applications

used to support distributed systems over either LAN or WAN.

#### *Excellent performance*

The FAST/TOOLS package is an excellent performer, it offers more, faster and better facilities. Applications can be set-up much more efficient by using the powerful object oriented configuration tools and the superb graphics editor to build your displays.

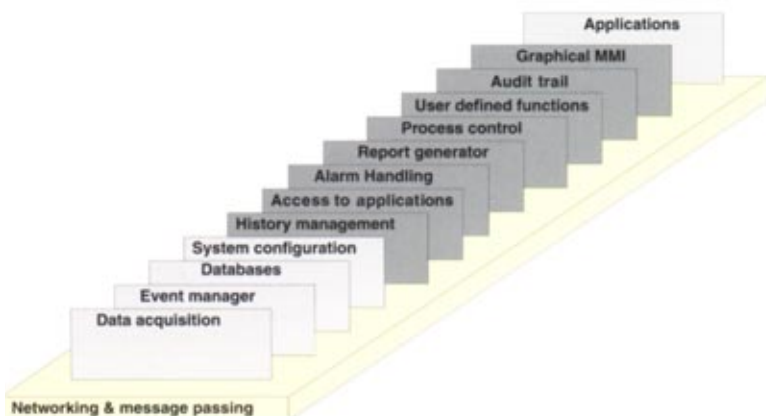
FAST/TOOLS systems can handle more signals and events because of the fully optimised and structured analysis and design of the FAST/TOOLS software.

re package. It offers you the best price performance ratio in the market today.

The FAST/TOOLS package is designed for SCADA systems and surveillance applications. This demands a modular design and a wide range of configuration options. The package supplies friendly and highly efficient configuration tools for end users and system integrator, and enables you to build your own applications. Also demos, prototypes and system simulations can be built with the configuration tools. The graphical user interface of FAST/TOOLS is based on either the X-window system and OSF/Motif or Microsoft Windows.

The FAST/TOOLS package is divided into separate modules, which can be easily installed and configured. The entry level of the product starts with the basic functions called the 'BASIC SET'.

The BASIC SET provides functions such as data acquisition with the field and the real time event manager for storing the information. It also provides the System installation and configuration tool. This tool uses forms



FAST/TOOLS modular architecture

to configure the system. Also a data management system and a real time networking and message passing system for communication between the modules are included.

With the 'BASIC SET' the process information is available for use on the system. The separate modules can be added to increase the functionality and build a full function FAST/TOOLS SCADA system.

The following functions can be added:

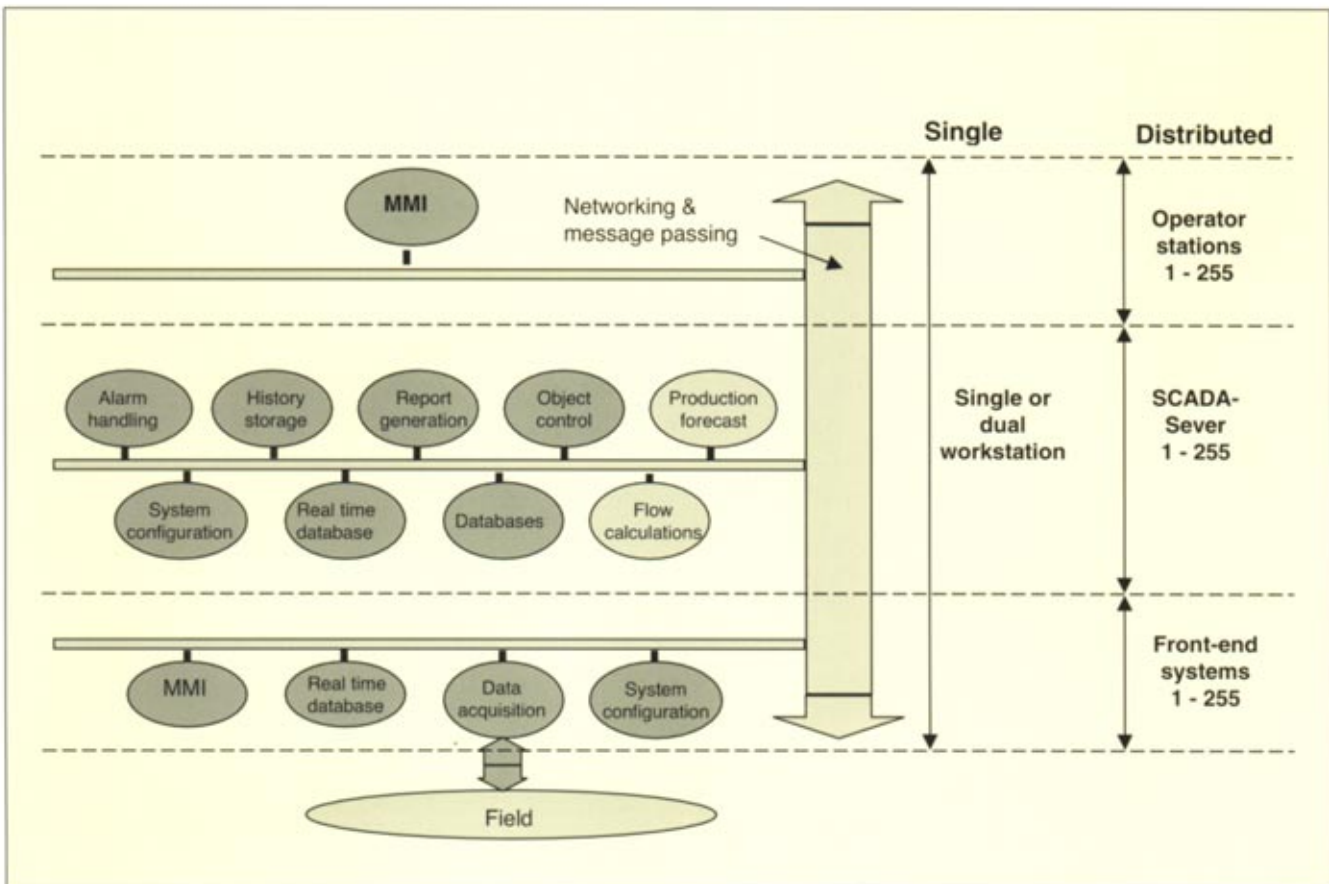
- graphical operator interface;
- alarm handling and management;
- history storage and retrieval;
- object oriented process modelling;
- provide access for other applications;
- report generation;
- audit trail;
- programmable sequence control;
- user-developed application software.

The modular structure of FAST/TOOLS is the key factor to its success in the industry. It is being used in many application areas, for example:

- Oil & Gas production supervision;
- Shipmonitoring and control;
- Production control supervision;
- Traffic management;
- Water, gas, electricity distribution management;
- Technical infrastructure surveillance;
- Building management;
- Embedded SCADA in advanced production equipment.

#### System Architecture

The FAST/TOOLS software is scaleable from supporting a few to more than one million I/O points. The system architecture can also be scaled with your application from a single workstation up to a network with many clients and servers.



### *Systems integration*

The FAST/TOOLS package can also be integrated with other systems by using the FAST/TOOLS development kit. The development kit delivers accelerated time to market for your applications; reusable applications; high quality and stable foundation software and reduced cost for software design, implementation and maintenance.

Using the development kit a FAST/TOOLS SCADA system can be integrated with expert systems, geographical information systems, Enterprise Resource Planning systems (ERP), Management Execution Systems (MES), Plant Information Management Systems (PIMS), pipeline simulation, flow control, and leak detection systems.

### *Training*

Standard training courses are available Process Operations, System Management, and System Integration. Each course will give the student a thorough basis to the application of the course subject. During the courses, students perform many hands-on sessions to familiarise themselves with the FAST/TOOLS functions and features.

### *Service and support*

Yokogawa ISS offers a comprehensive customer support package covering updates, enhancements and reports, as well as a technical support hot-line via telephone, electronic mail and facsimile. Our technical support staff not only logs, reports and resolves your questions, but can also assist on site with your system configuration and integration.

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