Operate^{IT}

SCADA Portal

the Human System Interface for Remote Control and PLC Applications

SCADA

Excellence in Supervi

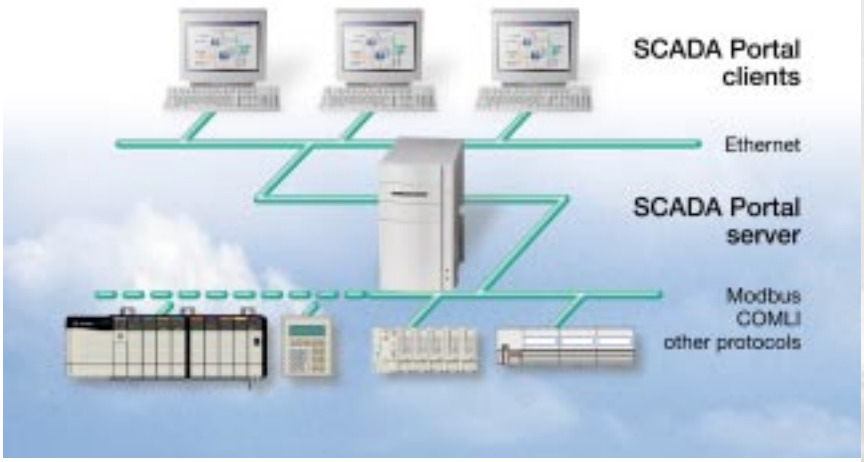
Total Control, Complete Confidence

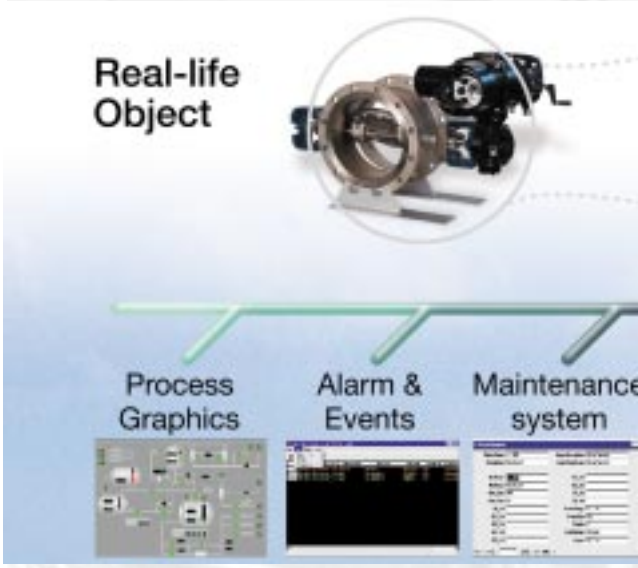
SCADA Portal is ABB's Human System Interface (HSI) for remote control and PLC applications. It combines traditional SCADA functionality with our innovative "Aspect Objects" concept. This empowers operators and support engineers to access all process control information within an enterprise in real time, and to assemble it in a format best suited to their task. SCADA Portal can therefore significantly improve the performance of the whole enterprise.

Because it is simple, reliable, and robust, SCADA Portal raises the efficiency of operations and keeps costs under control. Its scalability means it can be upgraded/expanded easily, and it can be connected to various communication protocols. Add to that the accuracy that comes from its real-time data, graphics, alarms, reports, and integrated database, and the result is an effective tool for process management and risk reduction.

Key SCADA Portal Features

- GRAPHICS – State-of-the-art process displays, diagrams, and symbols.
- SCADA Server – Object-oriented server with database, alarm detection, and scaling functions
- HISTORY – Process-trend historian, scalable in time and other dimensions
- ALARMS/EVENTS – Real-time processing/handling of alarms and events
- MULTIPLE TRENDS - Multiple signal trend displays.
- MULTIPLE DRIVERS – Simultaneous accommodation of multiple device drivers
- COMMUNICATION – Both serial communication and parallel TCP/IP-based networks
- REPORTING – Reports that use industry-standard packages.
- INTERFACES - Support for OPC, OLE/DB, and other industry-standard interfaces.
- VIDEO - Integrated live video display.
- TIME SYNCHRONIZATION - Time synchronization is supported.





Real-life objects like pumps, reactors which carries through all SCADA Por

Aspect Objects™: Intuitive, Powerful

SCADA Portal incorporates the architectural principles of ABB's Industrial IT concept. End-user functionality is mapped into independent software systems ("Aspect Systems"), which communicate with each other through well-defined services. A convenient on-screen workplace is configurable to present information from the different aspect systems. This workplace utilizes graphic representations of objects to simplify the operator's tasks and make operations natural and intuitive.

Each physical object, location, process, or event (e.g., plant device, production batch, etc.) is represented as a dynamic software object – an Aspect Object™ – linked to all the information required to operate, maintain and optimize it.

Aspect Objects™ features

- Unique operator functionality.
- Navigation from one information aspect to another with a single keystroke.
- Critical operations, plant-wide applications, and configuration tools available across system and application boundaries.
- Unlimited number of aspects can be associated with an Aspect Object™.
- Unsurpassed platform for system integration.
- Multiple, configurable information-structuring capabilities.
- Information structures can be tailored to suit user needs.

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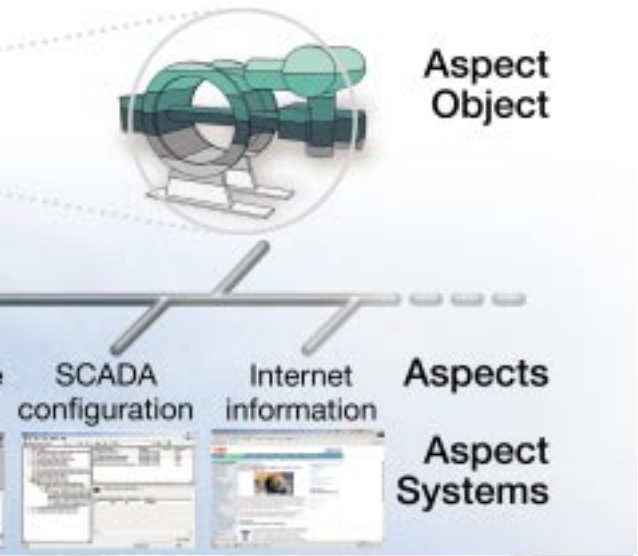


, valves, and conveyors are assigned an Aspect Object identity
tal data structures, screens, online text, diagrams, and reports.

Object-Oriented Design and Operation

Applications in SCADA Portal are built up according to object-oriented design principles. This contributes to the quality of the application software and reduces application programming costs and system maintenance costs.

- User-defined objects can be created that include process information, structures and other relevant information. These objects can be saved for reuse.
- Templates facilitate creation of new objects.
- The on-screen environment is fully graphic.
- "Inherence" means that a change in an object in one place automatically changes all objects of the same type.
- The Plant Explorer tool is used to create and manage projects, and provides full navigational access to all structures in a plant.
- Graphics Builder, which uses Visual Basic, supports efficient, accurate engineering of process graphics.
- Realistic, full-color Graphic Elements, created in .jpg format, enhance the usability of process views.
- To improve engineering efficiency, a number of complete SCADA objects are provided with the system and pre-connected to the SCADA database.
- Third-party ActiveX objects can also be incorporated.

Portal

The Benefits are Clear

For the Operator:
The flexible SCADA Portal on-screen workplace can be configured to suit the user's requirements. An operator can select a combination of process views, alarm lists, and trend diagrams, so that real-time access to updated, accurate, and current information is always assured. This improves the quality of operators' decisions and raises plant efficiency and throughput.

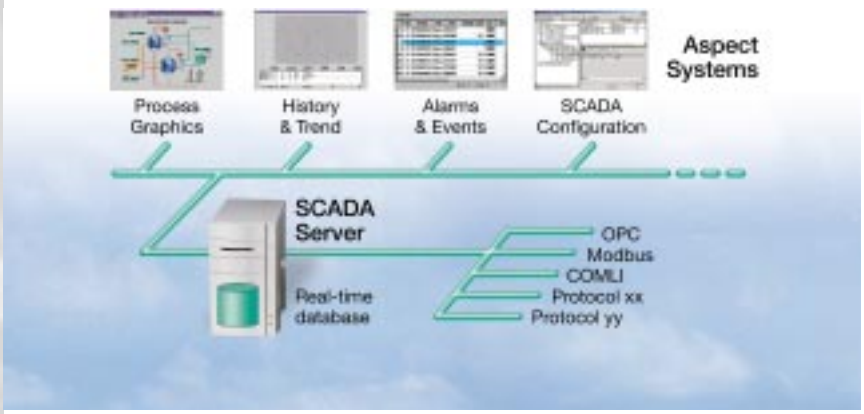
For the Engineer:
SCADA Portal allows engineers to quickly, efficiently configure the whole plant using objects containing all information, improving quality and reducing implementation times, and thus costs.

For Maintenance Personnel:
Using SCADA Portal means that plant maintenance personnel always, everywhere have real-time access to all alarm information, equipment data, drawings, etc., so that fewer production stoppages occur, downtimes are shortened, and overall production quality is improved.

For Sales Personnel:
Your organization's sales force always has real-time access to production rates, plans, order status information, free resources, raw materials, and other critical data throughout the value chain. This assures that they know what to promise your customers, according to what schedule, and for what price.

Selected Application Areas

- Industrial Process Control
- Sewage Transport Control
- District Heating Systems
- Oil and Gas Pipelines
- Power Distribution Regional Control Centers
- Water Level and Flow Measurement
- Building Automation
- Infrastructure Management



As part of its Industrial IT activities, ABB has developed a long-term strategy of offering a comprehensive range of products and systems for industrial applications. At the heart of this strategy is the Aspect Objects™ concept which allows all users access to all control and information systems within the enterprise and to assemble the information they require in a format best suited to their needs. Users are able to extend, modify and migrate their systems without difficulty.

Automation Technology Products within ABB offers a complete range of Industrial IT products from individual programmable controllers to complete control systems for complex plants. These products are sold and supported by the worldwide network of ABB.

If you would like to know more about these products, please contact your local ABB office or visit our website at www.abb.com/processautomation

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