



Human System Interface



In turn, each object has engineering, process and business data associated with it called aspects which make the object instantly recognizable to plantwide information networks. Some aspects, are functional (configuration data, range, capacity, speed, output, etc.), while others provide an object's asset management profile (productivity, purchase and cost of ownership information, maintenance records, mechanical drawings, etc.).

Intuitive navigation

Pull-down menus in a Microsoft Windows-based environment provide a list of available aspects. Users can maintain their view of the process while navigating to aspects – all from a unified user interface; simplifying operations while making information readily accessible.

- Unified user interface supports user-definable Menus and Tool Bars to ensure navigational efficiency
- Alarm Bars and Lists make it easy to access event/alarm management. Alarms are displayed in the order of occurrence
- User-created process graphics take full advantage of ActiveX capabilities. Includes library of standard objects such as valves and reactors
- Real-time trending allows users to focus attention where it is most needed. Historical trending accessed by user-defined time frames
- Set of connectivity libraries connecting any supported ABB system with Operate^{IT} provides a tight coupling of controllers with the unified user interface
- Configurable screen layouts and sizes
- Choice of full-size and quadrant-size frames

Intuitively simple

From production operators to senior management, your entire organization can now benefit from the power and flexibility of the world's best web-enabled unified Human System Interface (HSI), exclusively from ABB.

Operate^{IT}, like all of ABB's Industrial^{IT} solutions, works within an integrated software environment to provide seamless data access while allowing you to interact with diverse applications from a single unified user interface.

ABB's Aspect Objects™ provide a clear, real-time view of your enterprise

ABB's integrated software environment is populated with virtual devices representing a myriad of corporate assets – each associated with relevant real-time data and navigational information. Some of these objects represent physical process assets such as control valves or even complex reactors. Others represent discrete products, materials, production orders or batches.



Letting you do more and do it better

ABB's true distributed client-server architecture gives users access to all resident server displays and applications depending on their user access rights. In addition, this powerful web-enabled environment enhances understanding and decision-making capabilities through audio, live video and other data capture formats.

The personalized approach

Operator displays can be customized according to each user's preferences and access authority. Operate^{IT} automatically uses these preferences to set all event/alarm filters and display settings to create a familiar and secure virtual workplace.

Standards-based and scalable solutions

Adherence to standard technologies such as Microsoft Windows, ActiveX, Internet Explorer, OPC (OLE for Process Control) and others enable third-party cross-platform data exchange among different applications and Operate^{IT}. Efficient application interfaces and solutions reduce plant integration costs without the need for highly-specialized engineering or programming skills. In addition, scalable architecture lets you add to your system over time as your production and information requirements evolve.

Superior engineering efficiency

Once objects are designed, they're stored in libraries to facilitate repeated usage; leveraging your investment in knowledge and value creation. In addition, views can be organized by location, function and type to make it easy to select, view, and configure objects.

Evolution through enhancements

Operate^{IT} is designed to co-exist in systems that already make use of other ABB Human System Interfaces, while easily integrating with existing and new controller products. Connections can be made to multiple ABB systems, as well as other systems with OPC. Users have the power and flexibility to view all relevant control data from different systems via process graphics and other displays. As a result, operator response is dramatically improved, thanks to consistent navigation techniques and alarm handling, regardless of system source.

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