

Industrial^{IT} System 800xA Engineering provides a single point of configuration and change

Promotes engineering for maximum performance throughout the plant

Wickliffe, OH, January 7, 2004 — ABB's Industrial^{IT} System 800xA's integrated engineering environment efficiently supports the complete lifecycle of the automation project, from planning, through configuration and library management, to commissioning and operation to minimize system ownership costs. It manages **one** set of consistent data, for single-point entry, single-point change, and re-use across the plant, dramatically increasing plant efficiency and performance.

System 800xA provides a visual environment for easy design and deployment of extended automation strategies, including process visualization displays, information management, asset optimization, and field device integration. The flexible, distributed engineering environment allows project data to be accessed, created and modified simultaneously by different users.

Opportunities to drive operational performance improvement begin early in the project lifecycle where key asset information is being created in core design systems. By using ABB's Aspect Exchange Services[™] for INtools[®] for example, not only can automation system structure, functionality and graphics be created directly from INtools design, but operational changes such as ranges, units, and settings, can be continually reflected back to INtools. Engineering savings of 40% and operational savings of 20% are achievable from reduced as-built cycles and by automatically maintaining design synchronization.

System 800xA's Engineering graphical function design features enable engineers to be "engineers" instead of "programmers" by greatly streamlining application tasks. The graphical design of automation strategies facilitates easier engineering of applications. The design is function oriented, so that engineers can develop strategies without knowing controller and I/O physical allocations. Additionally, System 800xA's on-line monitoring and tuning features provide support during commissioning for continuous improvement.



Interactive process operation graphics can easily be customized through the use of the 800xA comprehensive library of pre-defined elements and symbols. In addition, bitmaps, photos, and third party graphical elements can be supported.

Fieldbus management for HART, FOUNDATION Fieldbus, and PROFIBUS provides the tools to engineer device integration from topology on down to the field elements, including device parameterization, application planning, commissioning, and detailed diagnostics.

The ability to efficiently manage large amounts of data is crucial to the engineering of any automation system. Using Microsoft Excel[®] and Excel add-ins, 800xA Engineering bulk data management features allow for the automatic importation and assignment of external data such as signal lists, tag names, or documents. In addition, system data can be exported at any time to support data validation and modification.

Companies ensure maximum consistency, reliability, and availability of plant asset production by using “Best Practices” solutions. Through its unique engineering environment, System 800xA allows standard solutions to be quickly reproduced and deployed.

Most focus their reuse solutions at the process control strategy and implementation levels. With System 800xA, solution standards incorporate extended automation assets such as faceplates, graphic elements, trends, document links, CMMS data views, field device diagnostics, and asset monitors. Standards are defined at any level across the entire plant, loop, machine, line, unit, and area.

In order to meet various regulatory compliance standards, 800xA Engineering change management features record and track system configuration changes to project libraries, instantiated solutions, and runtime and off-line data. System 800xA audit trail and electronic signatures are key features that specifically fulfill FDA 21 CFR part 11 requirements.

System 800xA’s integrated engineering environment provides the ability to associate documentation with related equipment and applications. Using dynamic documents, the customer can quickly navigate to the displays required for action. Documents based on Microsoft Excel, Word[®], or AutoCAD[®] can be enhanced with live process values for easier diagnostics.



Industrial IT System 800xA extends far beyond the reach of traditional automation systems to achieve the productivity gains necessary to succeed in today's business markets. This reach extends well beyond the realm of essential process control to production management, safety systems, smart instrumentation, smart drives and motor control, robotics, information management, asset optimization and documentation. Its unique engineering environment manages one set of consistent data, for single-point entry, single-point change, and re-use across the plant.

Industrial IT System 800xA is part of ABB's award winning suite of integrated Industrial^{IT} solutions; these solutions address the challenges that automation customers face in today's global marketplace. ABB's comprehensive Industrial^{IT} portfolio of products is focused on delivering productivity and profits to automation customers. ABB's product strategy is for evolution through enhancement to protect customer investment.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 120,000 people.

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