



Inform IT Enterprise Historian is part of Industrial IT, ABB's comprehensive offering of automation solutions, technologies and services. As the information management component of the Industrial IT suite of products, Inform IT empowers its users to increase productivity and make better business decisions.

Turning data and information into knowledge and wisdom

Enhance the usefulness of data from all operations within your enterprise. Report and document process operations with reliable real-time information. Identify and analyze underperforming assets, bottlenecks and operating anomalies. Implement advanced production management strategies. Access information from the plant floor, a desktop PC or over the web. Inform IT Enterprise Historian captures, presents and analyzes data from local, upstream and downstream processes.

Flexible and secure data management and decision support

Enterprise Historian provides comprehensive information management integration capabilities across your company's automation, production management and business systems:

- Seamless integration of information from business, production and automation systems
- Flexible data compilation and secure storage that support FDA 21 CFR Part 11 requirements such as electronic signature, audit trail and data access security
- Access to all data from your desktop or via the web
- Integrated data mining, analysis and modeling
- Calculation support, properties libraries

Real-time information, including operator graphics, production data and reports can be viewed on web pages. A web-based scheduler provides a variety of scheduling techniques such as cyclic, on-demand and event driven reporting. This is used to schedule reports built in Microsoft Excel[®], Crystal Reports[™] or a compatible report package chosen by the user.

Supports strict regulatory demands

For pharmaceutical, biotechnology and other highly regulated processes, Enterprise Historian provides the electronic data compilation, storage and transfer required to support the FDA 21 CFR Part 11 ruling. Data storage is tightly integrated with ABB's Produce IT production management solutions, offering comprehensive recipe management, batch control, electronic batch records, and material tracking for flexible batch manufacturing. Information such as process values, alarms and events, operator actions, and batch data associations is securely and accurately stored and viewable.

Information security

Data can be distributed easily from the control system domain to the manufacturing information network. Historical collection can be configured to record data simultaneously in multiple locations. Hardware redundancy is also configurable for added protection. Automatic switchover and data backfill strategies minimize data holes or losses. An extra measure of security is provided with on-line backups and scheduled or event-driven archiving to removable media or external disc farm.

Identification of key data relationships

Based on years of industry experience, ABB offers a wide variety of data structures and storage techniques that enable flexible data storage, organization and viewing, while preserving unique data properties, characteristics and relationships.

Enterprise Historian's Production Data Log (PDL) is a unique data recording function that organizes critical production information such as equipment and material usage, task start/stop and duration times, operator interventions and comments, plus alarms and events. PDL captures the relationships between production events and process variables. The flexibility of the PDL allows it to store production unit information such as reel, set and roll in paper; billet and coil in metals; and batches, phases and operations and material genealogy in pharmaceuticals.

Business and automation system integration



Enterprise Historian helps manage and improve production volumes, profit margins, quality and key process indicators by integrating data from business, manufacturing execution and automation systems. An ABB solution provides:

- Easy integration using standard interfaces such as OLEDB, SQL, OPC, ActiveX, COM, DCOM, ADO, VB, and VBScript
- Connections to ABB control systems and other automation systems
- Certified SAP transaction processing business system connections
- Web-based integration through XML, HTML, and HTTP

Data mining, modeling and advanced process control

Enterprise Historian's data mining, analysis and process modeling tools help you leverage historical data and create data-driven models to analyze information, predict results and optimize processes much more effectively than you can today.

Pavilion Technologies Insights™, a data mining and analysis tool, is tightly integrated as a component of Enterprise Historian. With Insights, historical data is used to identify hidden interaction between key variables and analyze the effects of process inputs on outputs, enabling you to transform raw data into useful knowledge to develop the wisdom to improve operational performance and productivity. What-if simulation scenarios show you how to improve efficiencies, yield and quality control; all in an off-line manner at your desktop so that the process is not affected.

In addition, models can be deployed on-line for property predictions, off-line and on-line for model predictive control and steady-state optimization. ABB's Optimize IT dynamic solutions use Enterprise Historian data in rigorous models. These models are used for process and asset optimization, supply chain management and regulatory reporting.



Discover how Enterprise Historian can help you get the most from your real-time and historical data to boost productivity and make better business decisions

For more information, e-mail us at: EnterpriseHistorian@us.abb.com or visit our web site at www.abb.com/processautomation.



Automation Technology Products
SE-721 59 Vasteras, Sweden
Phone: +46 (0) 21 34 2000
Fax: +46 (0) 21 13 78 45
www.abb.com/processautomation
email: processautomation@se.abb.com

Automation Technology Products
29801 Euclid Avenue
Wickliffe, Ohio 44092
Phone: +1 440 585-8500
Fax: +1 440 585 8756
www.abb.com/processautomation
email: industrialitsolutions@us.abb.com

Automation Technology Products
Dudenstraße 44-46, D-68167
Mannheim, Germany
Phone: +49 (0) 1805 266 776
Fax: +49 (0) 1805 776 329
www.abb.com/processautomation
email: marketing.control-products@de.abb.com