This is the age of “Big Data” and “Internet of Things”, and it is not limited to consumer goods and services. Across all industries, the new “smart” devices and machines in plants and factories are generating endless amounts of data. Even though there has been some standardization in the communication, this data often talks different in protocols and formats.

Timely collection and distribution of this data is a challenge for many information management systems; however, the real hurdle is presenting this data in the right context so that it can be transformed into meaningful and actionable information. All operational and business decisions hinge on having the right information in the right hands at the right time and in the right context.

Operators, engineers, maintenance personnel, managers and executives all have unique requirements and viewing preferences for the plant information. The same point of data can provide different insight based on your context. A fully integrated information management system can add substantial competitive advantage by providing support at every level in the organization to enable timely decision making.

S+ Historian provides a fully-integrated solution for all information management requirements at your facility.

**Integrating information from all sources**

S+ Historian is based on ABB’s vast experience in power generation, water and wastewater management and process industries automation. It is designed to integrate information from anywhere in the plant including cross-plant information platforms. ABB’s advanced technology provides seamless integration from third-party devices, controllers and systems. What’s more, S+ Historian’s ability to incorporate historical data and real-time data on a single trend provides users with a valuable perspective of the factors affecting their operations and businesses.

**Historical data on demand**

S+ Historian provides the possibility to view real-time data and historical information simultaneously in one display. Additionally, data can be accessed from multiple history servers, aggregating analog as well as digital trend data. The practical advantages are obvious when looking at trend curve values: users are able to overlay information over time without having to move from a real-time system to a separate historian.

**Transforming data into meaningful information**

S+ Historian aggregates data from multiple sources and enables users to view it in formats that make sense for them. Management is able to track key performance indicators (KPI) with or without historical trending. Operators can
seamlessly view both realtime and historical trend data as well as alarms and events in a format that enables them to respond quickly and appropriately. Maintenance supervisors can follow equipment performance trends and align predictive maintenance with personnel.

**Sophisticated reporting**

Sophisticated reporting functions draw on all current and historical process information retrievable from S+ Operations and other sources of information (e.g. from other information systems). Reports are easily configurable to the specific needs of a user, including freely customized reports. Reports can be scheduled or event triggered. All reports and logs are generated in the familiar format of Microsoft Excel which removes the learning curve associated with specialized software.

**Superior data management**

S+ Historian provides the ability to collect and securely store business and process data from all plant sources with unique resolution. The patented database technology incorporates event-driven data collection with aggregate cache, thus combining multiple, otherwise conflictive, characteristics. S+ Historian delivers millisecond resolution for the whole history database, with a low storage footprint, speed and unrivaled flexibility.

**Local and remote clients**

The client-server architecture allows the access to S+ Historian from virtually anywhere in the world. Any user in the plant is able to access the S+ Historian from any operator station based on the security and access rights of the user. For users outside of the plant’s intranet, the Thin Web Client provides access to real-time as well as historical data from a secured connection.

The clients are able to view and configure trends and reports as well as view process graphics.

S+ Historian gives operations and plant management extraordinary clarity as well as leading edge data resolution and calculation speed. This supports well-founded, real-time business decision making that leads to process efficiency, business profitability and a competitive edge.

**Key features and benefits**

- Completely integrated and preconfigured. The information management works “out of the box” with no additional engineering and maintenance required.
- The integrated and preconfigured long-term historian provides detailed statistics and reports for every desired time frame and resolution without additional configuration or engineering.
- History data from all plant sources is seamlessly integrated.
- Event-based real-time data collection with milliseconds resolution. This allows very high resolution when events occur as well as low memory and storage demands.
- The patented data aggregation technology allows for superior speed; e.g., trend displays for any chosen time frame are usually generated in less than one second.
- The event-based data collection allows for extraordinary flexibility; new statistics, reports and trend displays can be configured at any time for any time frame and for any purpose without additional engineering.
- Unlimited history data collection – data from every time frame starting from the initial installation is directly accessible at any time.
- The perfect integration into the operators’ station allows seamless and quick access to all available data.
- Direct and quick access of history information and real-time data.
- Clearly arranged event history display with integrated trend data graphics.
- The sophisticated presentation module makes the most complex graphics easy to read. Report configuration is easy with the drag and drop interface.
- Data display via full clients and web clients.
- OPC AE server and client enable easy data exchange with foreign systems.
- Complete life cycle management services.
Contact us

ABB Inc.
Power Generation
Wickliffe, Ohio, USA
Phone: +1 440 585 3087
Email: powergeneration@us.abb.com

ABB AG
Power Generation
Mannheim, Germany
Phone: +49 621 381 3000
Email: powergeneration@de.abb.com

ABB Pte. Ltd.
Power Generation
Singapore
Phone: +65 6776 5711
Email: powergeneration@sg.abb.com

www.new.abb.com/power-generation

© Copyright 2016 ABB
All rights reserved. Specifications subject to change without notice. Pictures, schematics, and other graphics contained herein are published for illustration purposes only and do not represent product configurations or functionality. User documentation accompanying the product is the exclusive source for functionality descriptions. Symphony is a registered or pending trademark of ABB S.p.A.