ABB Ability™ System 800xA History®

Information is a key asset of all businesses

Reduced time to decision and action is critical for improving quality and productivity. Secure, reliable and scalable data management is a key cornerstone of any Information Management solution.

The System 800xA History secure data and seamlessly present historical information in the proper context to operations, maintenance and management. The result is reduced time to decision and actions that are critical to the productivity of the plant.

System 800xA History helps to collect information from the sensor to the executive's desktop. It is designed to be a high-performance process historian for the management of real-time data and events. It reliably gathers and serve large volumes of data. It delivers information to the right people at the right time and brings system and people together.

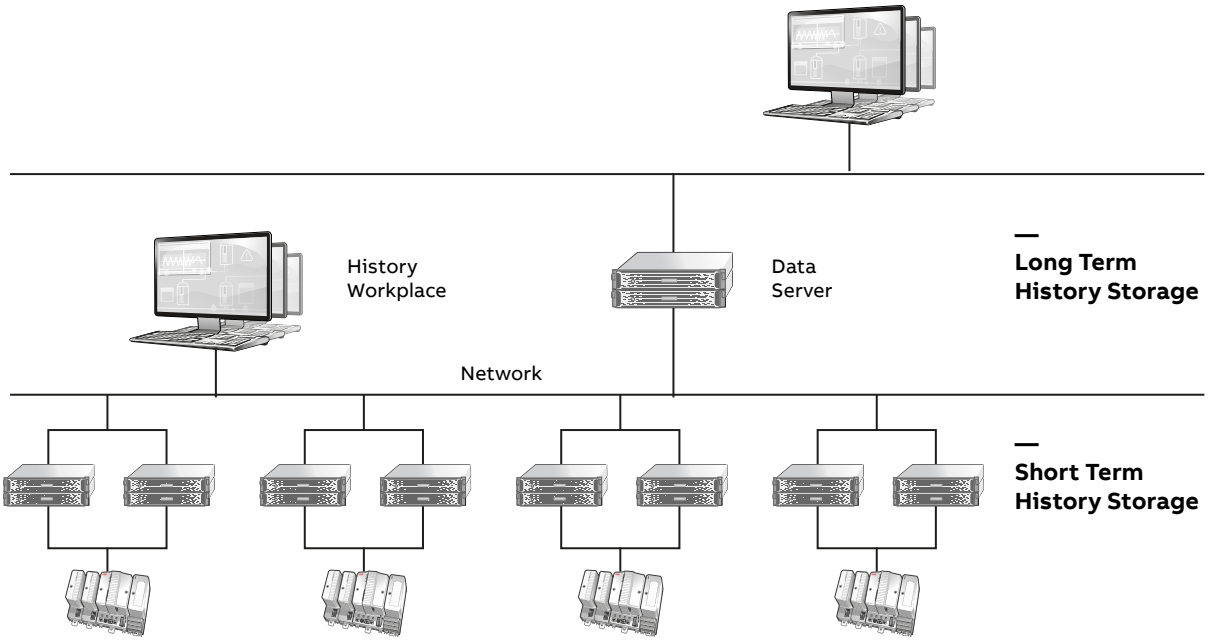
The 800xA History provides access to history data through standard interface like OPC and ODBC and insulates the automation system from the applications accessing the process data.

History Server
History Server is responsible for storing raw data and aggregated data from the control system. It stores the raw data in Real time database and aggregates the same data. History also stores events and manages system configuration. It provides open interfaces for external applications.

Moreover, History Management functionality can be applied to a single ABB control system, or across multiple control systems from multiple vendors.

History embedded data collector
History Embedded Data Collector is a node in History architecture, which is responsible for data buffering of raw OPC data. History Embedded Data Collector stores the raw data in the real time database, which is a part of Data Collector Node.

The raw data is stored in the real time database for seven days in the Data Collector Node, which is sent to History server.



Secure Historic Data Storage and Access
Data availability is increased by fault tolerant and distributed configurations. Data integrity is protected by user access restrictions and offline storage.

Sophisticated Data Transformation
User defined data structures and calculations provide powerful, reusable algorithms in addition to external application data support.

Accessible Archive Services
Electronic records access is secure and reliable using approved offline management archiving functions.

Integrated Administration and Configuration
Inherent system configuration and administration provides a single information repository and single point change management eliminating duplicate engineering effort.

Technical specifications

- OPC AE Data retrieval through 800xA History for automatic downtime calculation

Benefits in short

Secure Historic Data Storage and Access:
Data availability is increased by fault tolerant and distributed configurations. Data integrity is protected by user access restrictions and off-line storage.

System 800xA History:
Now has an OPC UA server which support alarm and events (AE) in addition to data access (DA) and Historic Data Access (HDA).

Number of 800xA History Data Collector nodes:
From 800xA 6.1.1 onwards end user can configure up to 8 pairs of 800xA History Data Collector or 16 single 800xA History Data Collector in System 800xA. In previous release the limit was up to 6 pairs or 12 single 800xA History Data Collector in System 800xA.

System 800xA History Sync Service:
Refactored 800xA History Sync Service provider is integrated in 800xA 6.1.1, which has an improved stability and performance.

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