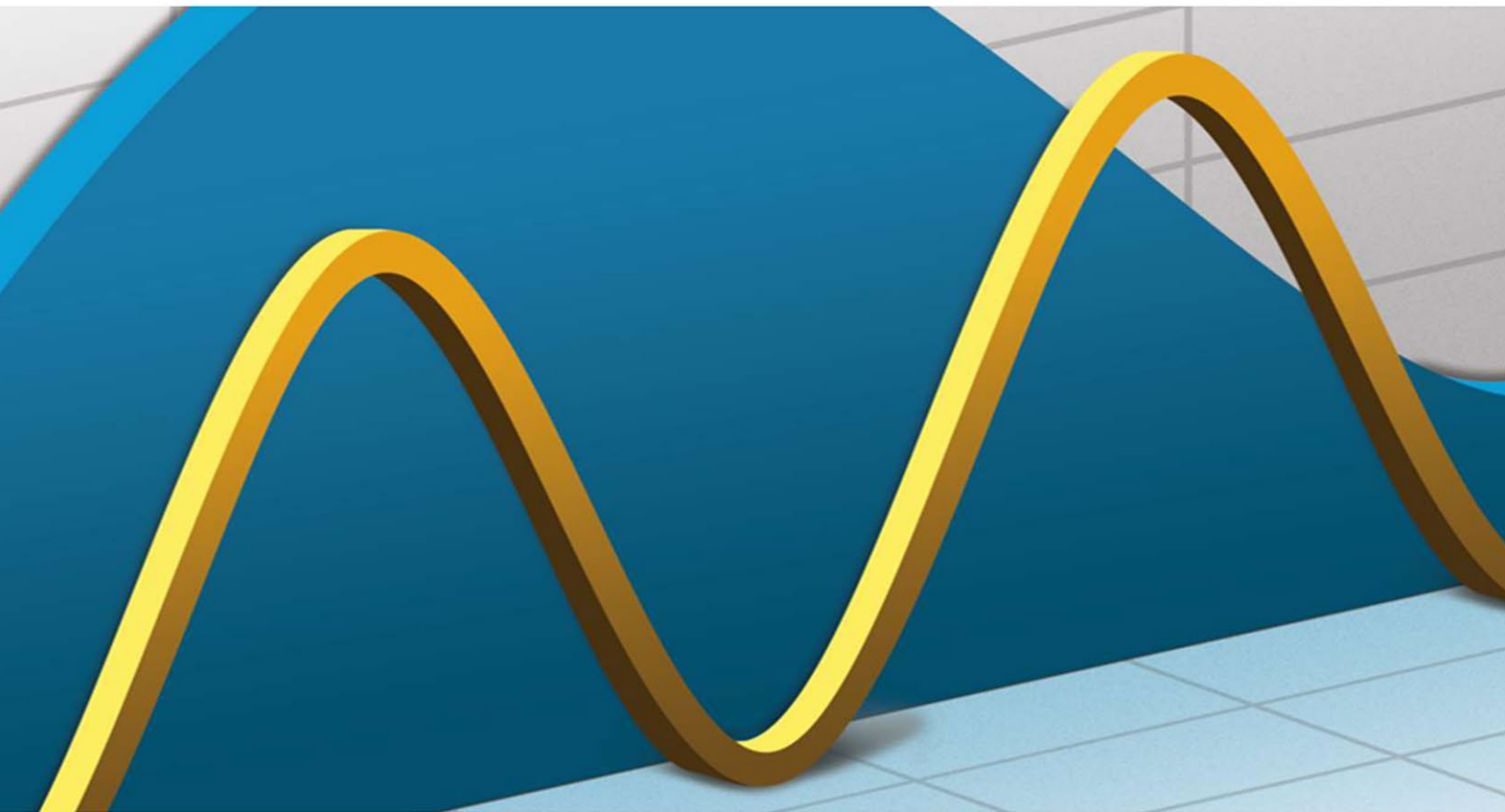


HistoryView

High Speed Big Data Plant Historian



The Importance of your Data Demands a High Speed,
Reliable and Robust Plant Historian

HistoryView

An advanced 64-bit high-speed, reliable, and robust plant historian, designed for the most mission-critical applications demanding maximum availability.

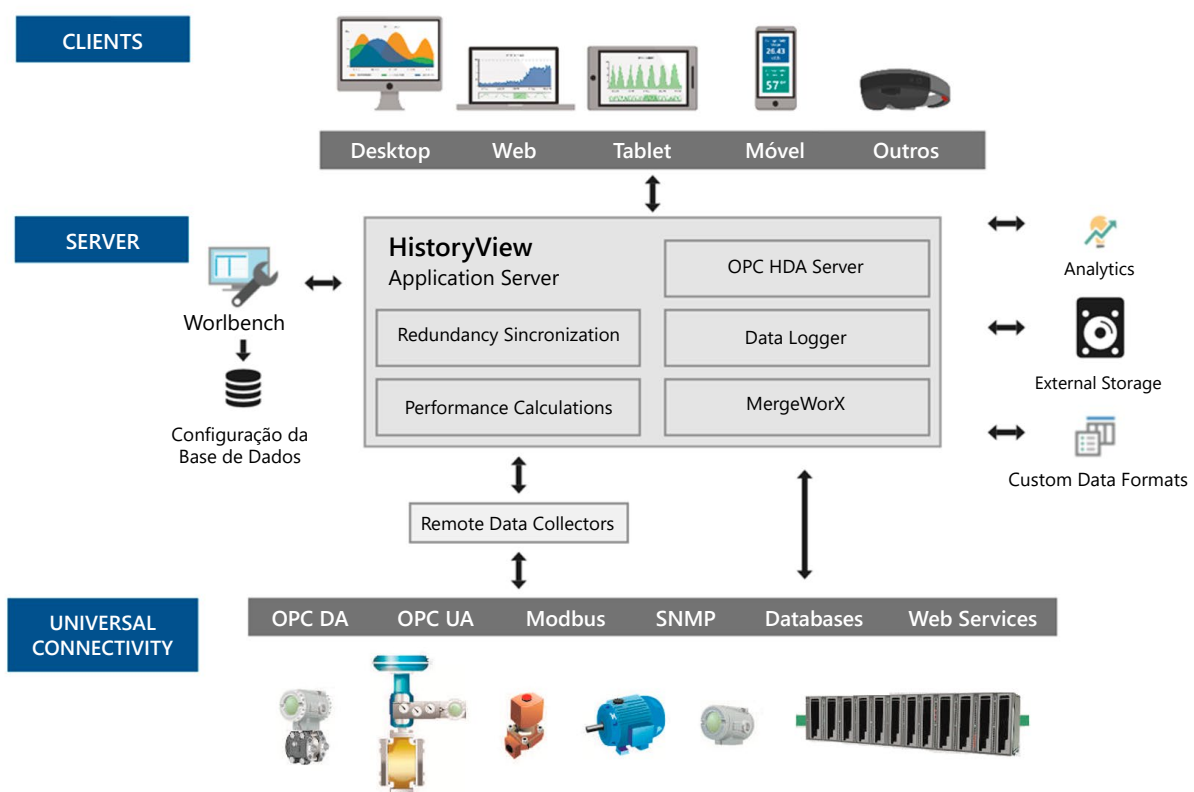
Big Data Plant Historian for Any Application

SMAR's HystoryView delivers unparalleled performance with very efficient use of computer resources. It leverages the latest Microsoft platforms and includes tight integration with SQL Server. This technology makes HystoryView the most efficient, real-time plant historian for any Microsoft 64-bit operating system.

Data storage and retrieval is faster than traditional relational databases and other real-time historians. Combining a high compression, advanced Swinging Door algorithm, and designed to leverage 64-bit hardware and software architectures, HystoryView can access more CPU power and memory than traditional 32-bit based historians, providing the highest performance possible on all standard PC-based platforms.

HystoryView Key Features

- Designed using 64-bit and .NET technology
- Integrated performance calculations
- Industry standard data connectivity
- Native reporting add-in for Microsoft Excel®
- Web-enabled configuration and administration
- Unattended data archiving and back-up
- Customizable trending and charting
- Real-time and historical data replay
- Multiple remote data collectors
- Store-and-forward technology
- Extensible SQL query engine
- Diagnostic data tracing with event logs
- Integrated redundancy
- Seamless integration with SMAR software
- Rapid data collection for enterprise-wide data storage



Productivity tools lower operational cost and total cost of ownership



Unparalleled Performance with Unattended Data Archiving and Backup

HystoryView uses an advanced Swinging Door data compression algorithm for high speed data collection of up to 250,000 data events per second on reference hardware, for all real-time, enterprise-wide information. With a unique automatic archiving feature, HystoryView allows for routine or triggered scheduling of data archives, freeing up disk space and backing up files for long term storage and retrieval.

Designed for the Most Demanding Applications, On-Premises or in the Cloud

For mission-critical applications that need uninterrupted access and collection of data, SMAR' HystoryView has robust, built-in software redundancy. Automatic store-and-forward technology ensures data integrity, in the event of a communications disruption. Leverage HystoryView on Microsoft Azure for maximum scalability and reliability.

Industry Standard Data Connectivity, Data Integration, and Performance Calculations

HystoryView uses advanced data integration, providing unsurpassed connectivity to any device via OPC DA, OPC UA, OPC HDA, OPC XML, SNMP, BACnet or database values. Easily collect information from multiple plants, facilities, and all enterprise equipment. Data sources such as PLCs, I/O devices, HMI applications, and network devices can be collected and stored for reporting and analytics.

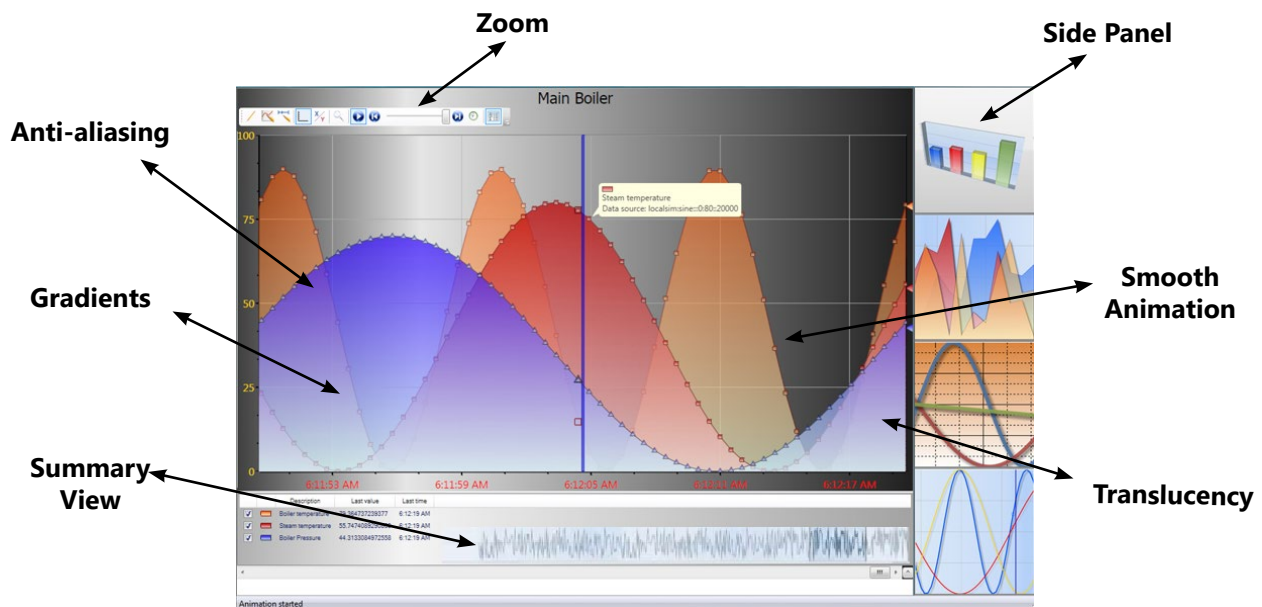
HystoryView's powerful Performance Calculation Engine allows users to configure complex calculations that can be triggered periodically or on any data change event, using flexible new date/time, mathematical, string and historical data retrieval functions for advanced analysis.

MergeWorX is a tool for automatic or manual insertion of data into HystoryView, to import historical or log data from databases, other historians, field devices and other equipment such as PLCs. This provides for high resolution recording from devices and greatly increased reliability of capturing all data.

Web-enabled Thin-client Configuration and Operational Management

The engineering cost of an automation project is typically 70 percent of the total project cost. The Workbench unifies all backend configuration, acting as the centralized web-based development environment. The robust, secure workbench reduces engineering cost and minimizes development time for any project.

The runtime operational interface allows for complete visualization of real-time and historical data with 2D and 3D charts. The Workbench's advanced configuration console performs complete service management and has integrated layout and project management capabilities.



Powerful Real-time and Historical Charts, Data Analysis and Reporting

From the Workbench, operators can add fully customizable trends for any applications. Choose from the preconfigured library of 2D and 3D charts such as X vs. Y, logarithmic, bar graph, strip chart, and more to build clear and accurate representations of real-time and historical data. The intuitive ribbons and galleries to customize trends by adding color, gradients, animation, translucency, anti-aliasing and more to make data analysis clear and accessible. Drag and drop data sources during runtime and view multiple trends simultaneously.

Data can also be viewed in tabular formats with the ability to enter operator comments as well as manage lab data and audit trails in accordance with 21 CFR Part 11 policies.

HystoryView includes an industry standard SQL Query Engine for reporting and bulk data editing, enabling tight integration with any SQL compatible database such as Microsoft SQL Server, Oracle and any open database compatible client such as Microsoft Excel.

HystoryView can connect with all SMAR AnalyticsView applications to provide a level of advanced data analysis.

Leverage the Most Advanced Technology



TURN REAL-TIME DATA INTO A COMPETITIVE ADVANTAGE

Industry Challenges

Plant operations are faced with the need to perform better and to be more competitive with fewer resources. For plant-level operations, systems need to connect to dispersed sources for data collection with the ability to analyze and visualize data in real time.

SMAR and its HystoryView enterprise-wide plant historian allows managers to gain a competitive advantage by organizing all real-time information across an enterprise.

Designed for Use in Many Industries

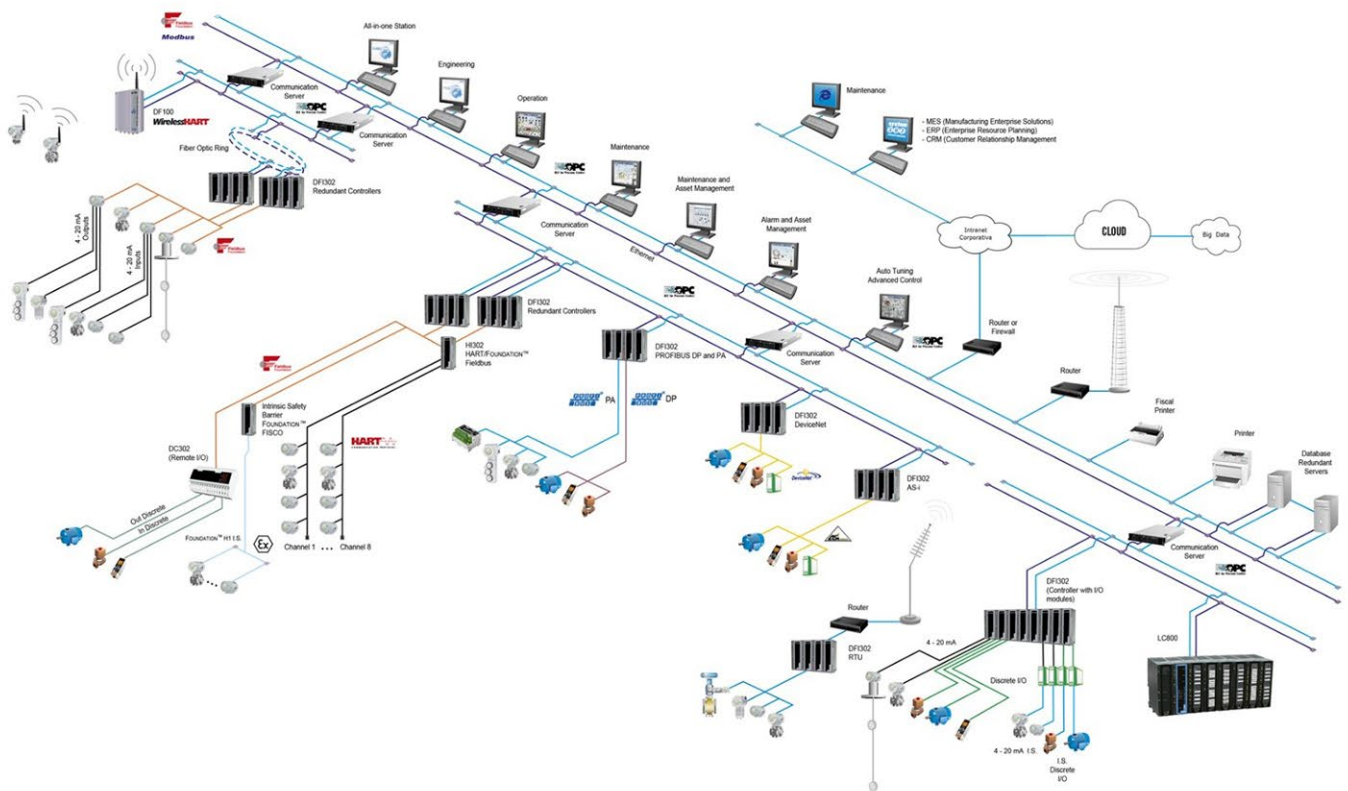
For over four decades, SMAR industrial automation software solutions have met and exceeded real customer needs in multiple industries, including:

- Oil & Gas
- Sugar & Alcohol
- Petrochemical
- Pharmaceutical
- Chemical
- Pulp & Paper
- Food and Beverage
- Water & Wastewater
- Mining
- Metals



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Open Digital Ecosystem

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