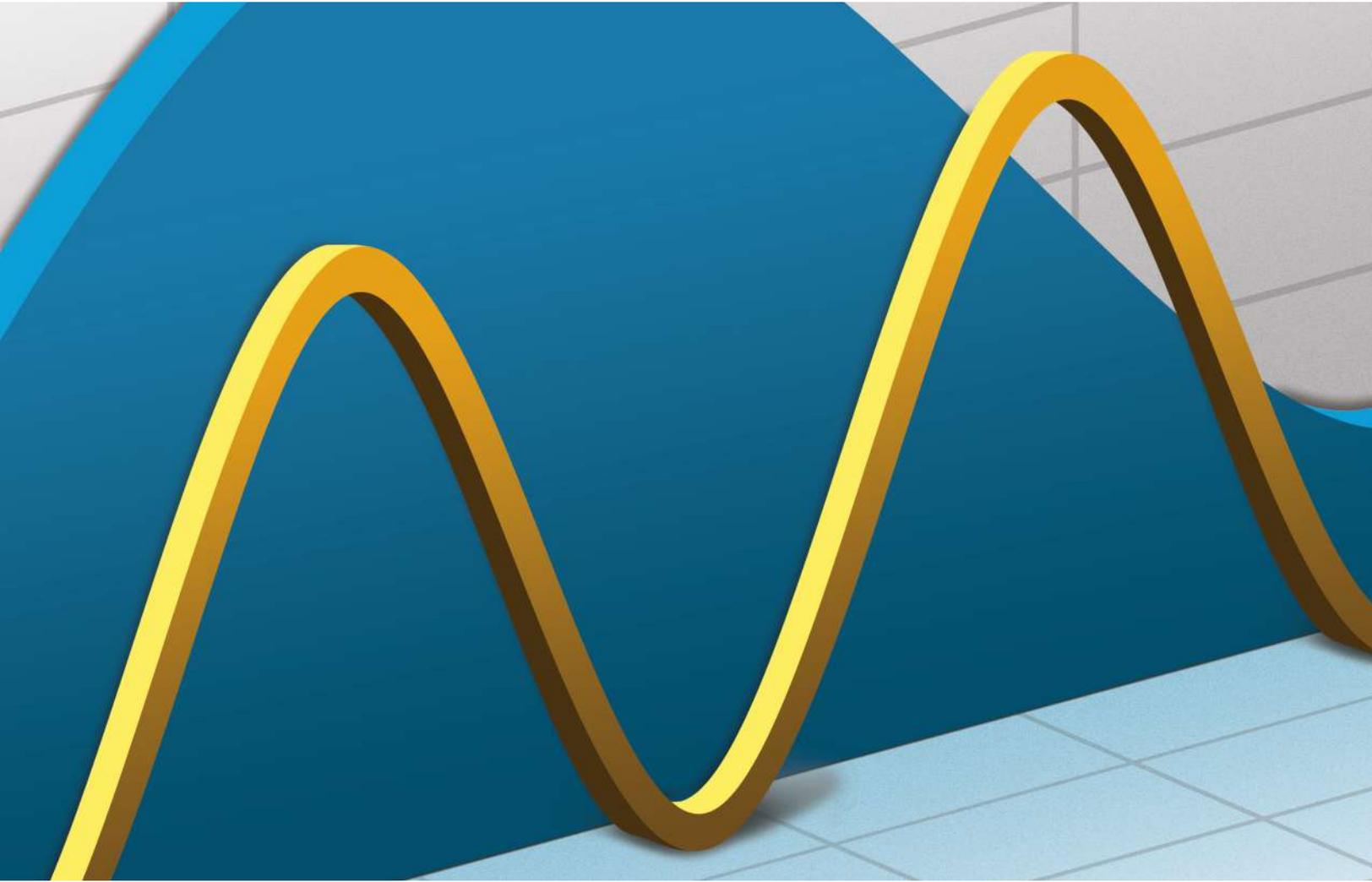


Hyper Historian™



High Speed, Reliable, and Robust Plant Historian

Gold
Microsoft Partner



Make the Invisible Visible™

Advanced Big Data Plant Historian for Any Application

ICONICS' Hyper Historian™ is an advanced 64-bit high-speed, reliable, and robust plant historian. Designed for the most mission-critical applications demanding maximum availability, Hyper Historian delivers unparalleled performance with very efficient use of computer resources. Hyper Historian leverages the latest Microsoft platforms and includes tight integration with SQL Server. This technology makes Hyper Historian 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, Hyper Historian can access more CPU power and memory than traditional 32-bit based historians, providing the highest performance possible on all standard PC-based platforms.

Hyper Historian 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 ICONICS software
- Rapid data collection for enterprise-wide data storage

CLIENTS



Desktop Web Tablet Mobile Wearables

SERVER



UNIVERSAL CONNECTIVITY

OPC BACnet Modbus SNMP Databases Web Services



Productivity tools lower operational cost and total cost of ownership



Unparalleled Performance with Unattended Data Archiving and Backup

Hyper Historian 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, Hyper Historian 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, ICONICS' Hyper Historian has robust, built-in software redundancy. Automatic store-and-forward technology ensures data integrity, in the event of a communications disruption. Leverage Hyper Historian on Microsoft Azure for maximum scalability and reliability.

Industry Standard Data Connectivity, Data Integration, and Performance Calculations

Hyper Historian 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.

Hyper Historian'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 Hyper Historian, 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.

Hyper Historian 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.

Hyper Historian can connect with all ICONICS AnalytiX® 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.

ICONICS and its Hyper Historian 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 more than 30 years, ICONICS has developed leading-edge software tools for automation, manufacturing, building control and information management customers. ICONICS has shipped over 350,000 products that are installed in plants spanning the globe in various industries:

- Automotive
- Building Automation
- Food and Beverage
- Government and Military
- Manufacturing
- Materials and Mining
- Oil and Gas
- Pharmaceutical
- Sustainability
- Transportation
- Utilities and Energy
- Water and Wastewater



Founded in 1986, ICONICS is an award-winning independent software provider offering real-time visualization, HMI/SCADA, energy management, fault detection, manufacturing intelligence, MES, and a suite of analytics solutions for operational excellence. ICONICS solutions are installed in 70 percent of the Global 500 companies around the world, helping customers to be more profitable, agile and efficient, to improve quality, and to be more sustainable.

ICONICS is leading the way in cloud-based solutions with its HMI/SCADA, analytics, mobile and data historian to help its customers embrace the Internet of Things (IoT). ICONICS products are used in manufacturing, building automation, oil and gas, renewable energy, utilities, water and wastewater, pharmaceuticals, automotive, and many other industries. ICONICS' advanced visualization, productivity, and sustainability solutions are built on its flagship products: GENESIS64™ HMI/SCADA, Hyper Historian™ plant historian, AnalytiX® solution suite, and MobileHMI™ mobile apps. Delivering information anytime, anywhere, ICONICS' solutions scale from the smallest standalone embedded projects to the largest enterprise applications.

ICONICS promotes an international culture of innovation, creativity, and excellence in product design, development, technical support, training, sales, and consulting services for end users, systems integrators, OEMs, and channel partners. ICONICS has over 350,000 applications installed in multiple industries worldwide.

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For more, visit www.iconics.com/HyperHistorian

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