

PARCserver

Data Collection & Storage Functions

High-Speed Process Data Historian.

PARCserver Provides Data Collection and Storage Functions, Serving as the Foundation for Your Plant Information Management System (PIMS).

Our historian architecture is optimized for integration with the PARCview analysis package. Yet, because data is only valuable when it is utilized, we take advantage of open standard protocols to ensure third-party applications can easily and economically integrate with our historian. PARCserver offers everything you expect from a mission critical plant data historian product, including essential accessibility, performance, and security.

Create information-rich displays quickly and efficiently for plant visualization from any source of data (DCS, QCS, lab systems and more) across the entire enterprise. Scalable and flexible, it enables users from every level of the plant to rely on the data by ensuring the highest levels of system uptime and data integrity.

External Access

PARCserver includes several methods for easily connecting external applications to the Historian data. So it's easy to interface your favorite reporting package or Advanced Analytics solution.

Data Historian

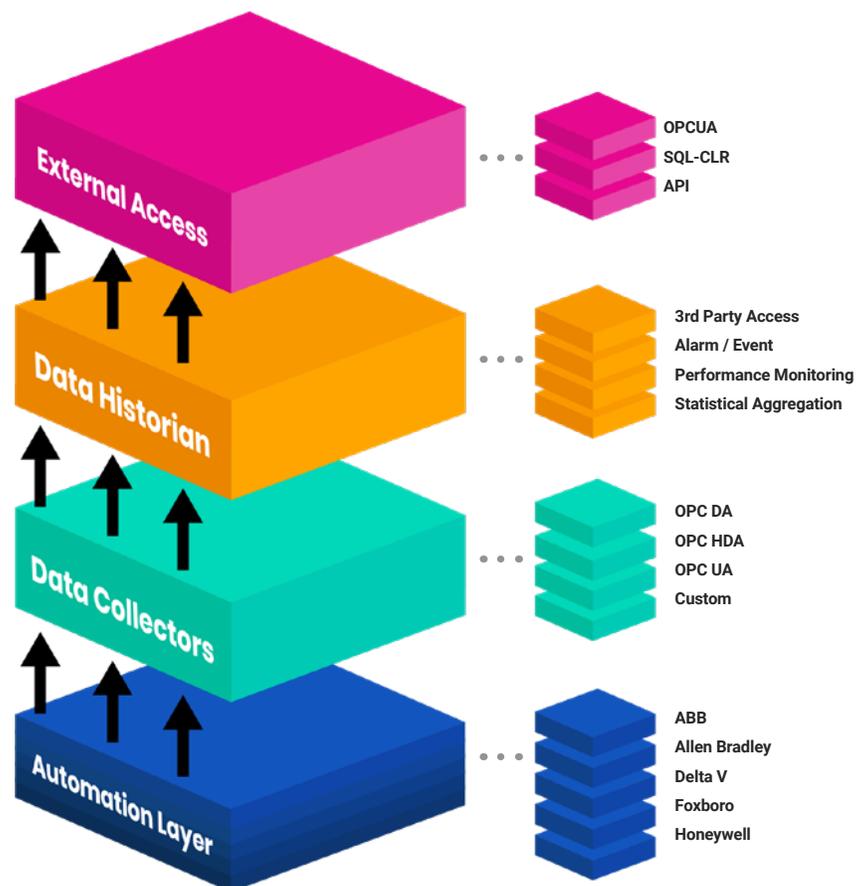
The PARCserver suite of applications is the powerhouse behind the speed and efficiency with which dataPARC products retrieve and display data.

Data Collection

Data collectors utilize "store and forward" technology to buffer data, ensuring maximum integrity. Hundreds of OPC and custom servers are available to interface with your automation layer.

Automation Layer

PARCserver is capable of acquiring high frequency data from all the automation and control systems in the plant. These systems include PLCs, DCSs and others.



Enterprise Ready

Flexible options for Enterprise customers. A variety of architecture options for the unique needs of each customer.

External Access

Analytics ready API, designed for external applications to easily and efficiently access Historian Data.

Simplified Storage

Store most frequently used data on premise (the Edge) and less frequently used data centrally or in the Cloud.

Features

Data Types

Additional data types are supported in the new historian. More decimal precisions for numbers and digital (numeric and text) values for example.

Accessibility

Open protocols and industry standards: ODBC, OPCUDA, OPCUA, Excel, etc.

Reliability

Store and forward buffering, options for high availability and failover. Automated monitoring.

Scalability

PARCserver is not limited by tag count, big or small, making it suitable for systems of all sizes.

Store & Forward

PARCserver provides native store and forward technology, ensuring robust data transfer and maximum reliability.

How Does It Work?

Data collector buffers data locally and validates successful transmission to historian before clearing the queue. This technology prevents data loss when connection to the historian is lost—like during failures of network hardware or the historian server itself. In complex network architectures, like multiple domains, this technology becomes more and more critical.

Hybrid Architecture

Store data on premise (the Edge), centrally, in the Cloud or a combination of all and maintain seamless connection.

Flexibility

Central users choose which tags to store centrally.

Faster Data

Reduce latency and optimize historian architecture, to make it even faster to see the latest data from measurement instruments.

Management

Sources and tags managed through an easy-to-use MS Excel interface. The Enterprise Manager provides a centralized management console. View all performance indicators and connect to remote applications.

Calculations

A Visual Basic-based calculation engine makes it easy to build simple or advanced logic calculations from one or many data sources.

