Matrikon®

Matrikon OPC Desktop Historian

Datasheet

A Flexible, Reliable and User-friendly Solution for Capturing Data Across Your Network

Unlocking the true value of process automation data begins with the ability to capture and access it for future analysis, reporting, and informed decision-making. You want to access data seamlessly from different servers, store it on local PCs around the plant, and then move it to an enterprise-level historian when needed.

For industrial organizations, the goal is to prevent data loss, improve operational efficiency and address diverse applications via a single, integrated product.

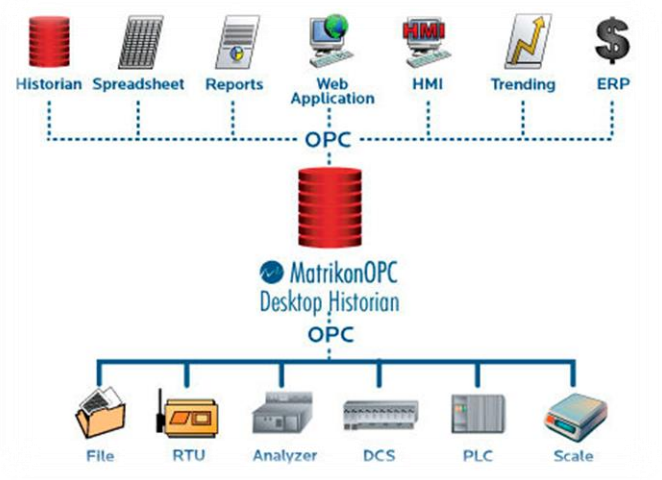

Figure 1: Industrial organizations are seeking better ways to capture and access plant data for future analysis, reporting, and informed decision-making.

THE ONLY LOCAL HISTORIAN YOU NEED

Matrikon OPC Desktop Historian (ODH) is an affordable solution for time-based data storage. Intended for standalone use or as part of a total enterprise data historian, the tool makes it easy to collect data from OPC Servers at an individual facility, or across an entire geography, and store it on your local Windows desktop. It's the only product you need to meet a wide range of local data capture requirements.

Matrikon's manageable, user-friendly desktop historian handles applications ranging from a few items to tens of thousands of data points per instance, and is ideal for use "in the field" and on the shop-floor.

ADVANCED FEATURES, ROBUST PERFORMANCE

OPC Desktop Historian is a best-in-class solution with advanced capabilities such as support for history data transfer between different HDA servers using the History Link feature as part of the historian interface, as well as support for configuring multiple instances of the tool to share the load (multi-instance). Load Balancing helps distribute large tag count installations to ease maintenance requirements, and reduces the risk of performance degradation associated with large single instance installations. Support is also provided for configuring multiple historical data transfers (History Link load balancing).

In addition, Matrikon OPC Tunneller™ can be installed as an optional component. Tunneller is a proven application to avoid DCOM configuration.

With OPC Desktop Historian, users can effectively capture and store data on a local machine for comprehensive analysis. The tool is simple to install and maintain without the need for complex configuration. It is stable and reliable with very low latency and high throughput. Data from an OPC server can be seamlessly accessed via an OPC Client, and then transferred to the enterprise level when needed.

Using OPC Desktop Historian, you can:

- Input historical data through the OPC HDA server (insert, replace and insert/replace)
- Support diverse data strings
- Archive data for operations optimization, analysis, reporting, etc.
- Control the maximum load an OPC client can place on the historian
- Utilize a robust Backup and Restore tool
- Employ a Rolling Buffer Storage Engine (FF7R) for set-and-forget storage
- Leverage Long Term Storage (FF7) for permanent persistence
- Apply Tag Lifetime so tags that rarely change can be updated and recorded to disk

- Implement File Collector to intelligently read data from files and write data to an HDA server while monitoring multiple directories

FULLY SCALABLE, FLEXIBLE DEPLOYMENT

OPC Desktop Historian can be used as a standalone historian with visualization tools or as a history buffer in larger, distributed store-and-forward history architectures. A versatile Hub and Spoke feature allows the historian to act as the "Hub" (central historian) or "Spoke" (remote buffer/historian) without external dependencies. Users can pull or push historical data from any historian directly via the OPC interface; no additional products are required. This solution also has a multi-instance ability to configure multiple nodes of Hub and Spoke networks.

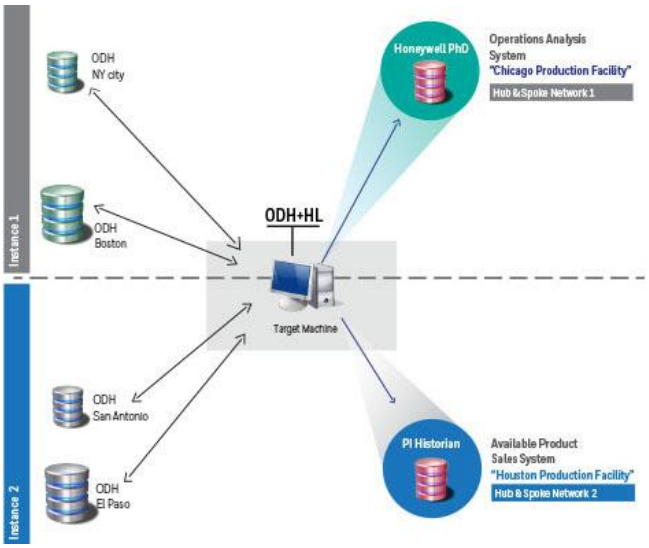

Figure 2: With support for multi-instance execution, a single PC can service multiple independent Hub and Spoke networks.

In Figure 2, two instances of ODH are running on the Target Machine (located in the center). By using History Link (HL) the Target Machine is able to independently service data synchronization between two different Enterprise Historians (Honeywell PHD and OSI Pi) and their respective remote buffers/historians.

Instance 1 of ODH combined with HL is pulling data from an ODH in New York City and another ODH located in Boston – pushing the data into Honeywell PHD (Hub Historian). This is diagrammatically represented as Hub and Spoke network number 1.

Instance 2 of ODH is pulling data from an ODH in San Antonio and an ODH at El Paso (it can be any number of smaller historians) and pushing the data into the Pi Historian (Hub Historian). This is diagrammatically represented as Hub and Spoke network number 2.

With support for multi-instance execution, the latest ODH (with a previous configuration) allows a single PC to service multiple independent Hub and Spoke networks. Without the need for additional software, this presents a much simpler and economical solution for data movement.

Matrikon® OPC Desktop Historian:

Local data capture in a single, integrated product

Unlock the true value of automation data with Matrikon OPC Desktop Historian. This solution enables you access data seamlessly from different servers, store it on local PCs around the plant, and then move the data to an enterprise-level historian when needed.

EASY TO INSTALL, SIMPLE TO USE

OPC Desktop Historian installs quickly and easily. It is ideal for those who need to archive process data, but don't have the time, resources and money required for implementing an enterprise process historian. Just click-select-collect!

OPC Desktop Historian (Demo Versions) includes:

- Easy OPC Trender: A powerful analysis tool that is easy to use, yet comprehensive enough for the most sophisticated users
  - Provides user-friendly interface from which to trend historical and real-time data
  - Supports multiple trends simultaneously on their own axis
- Matrikon Analytics Excel Reporter: Using Microsoft Excel for reporting and analysis, access all real-time and historical data from any OPC server
- OPC Server for Performance Monitor (Demo Version): This OPC server gives windows performance information and is typically part of any IT health monitor solution. You can measure any process (like an OPC Server) for memory performance, CPU usage, started or stopped, etc.
- Matrikon OPC Tunneller™ (Demo Version)

SUPPORTED OPERATING SYSTEMS

- Windows 7-32b
- Windows 7-64b
- Windows 10
- Windows 2008 Server R2 64b
- Windows 2012 Server R2
- Windows 2016 Server R2

SUPPORTED OPC SPECIFICATIONS

- OPC DA (OPC Data Access) 2.05
- OPC DA (OPC Data Access) 3.0
- OPC HDA (OPC Historical Data Access) 1.2
- OPC Security

PERFORMANCE DATA

- Configured with 10K tags – 10K tags/sec. archived (meets standard performance criteria)
- Configured with 15K tags – 15K tags/sec. archived (meets standard performance criteria)

