



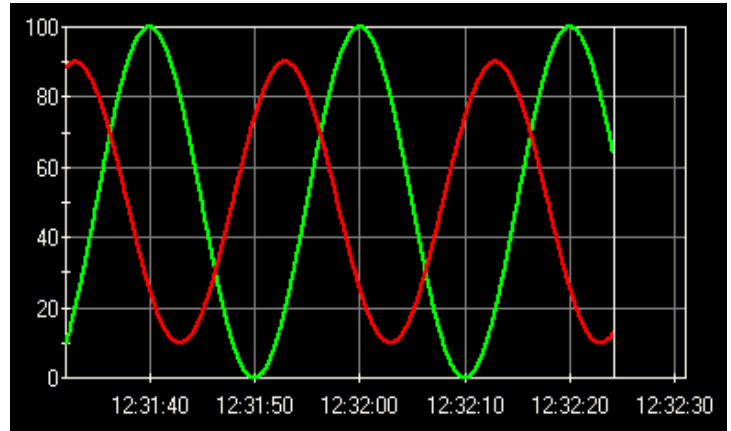
# ObjectAutomation's OA2history

## Distributed Process Data Storage, Display, & Management

OA2history is the OAenterprise component that provides process data storage, retrieval, and presentation services to give operators, engineers, and managers a way of viewing current, recent, and past operational details as a function of time.

With OA2history, you can:

- **Configure** any or all attributes in the OAenterprise system for historical storage.
- **Save** time-series data for all OAenterprise-supported data types, including strings, integers, floating points, and Boolean values.
- **Create customized trending** displays of pre-configured or ad hoc streams of time-series data.
- **Analyze trends** in processes in order to plan process changes.
- **Set up** value dead-banding and/or time slicing preprocessing parameters for each attribute for high-fidelity, yet efficient data storage.
- **Provide** for fault-tolerant, redundant storage and retrieval configurations to ensure high availability of process and related historical data.
  - **Route** storage to up to three local and/or remote storage destinations.
  - **Transparently retrieve** data from OA2history as a whole or from any subset of its storage locations - from anywhere within OAenterprise.
  - **Manage** distributed history vaults and repositories for secure, reliable storage and instant access.
- **Use OAenterprise** general capabilities, in conjunction with those of OA2history, to provide for unmanned operation and management of the history system.
- **Use OLE Automation** interfaces to provide interoperability between automation clients and OA2history for retrieval and management operations.



### The Ultimate History Tool

OA2history has everything needed to store, retrieve, and present enterprise data. It manages distributed vaults and repositories for secure, reliable storage and instant access. Its architecture allows long-term, uninterrupted and unattended operations that accommodate past, present, and future storage technologies. It meets industry standards like OPC, ODBC, and OLE Automation access using flexible intuitive ActiveX controls.

To speed system implementation and maintenance, you can configure history at the class level when you define a pump, motor, valve, operational summary, etc. by selecting which streams of data you want to capture. In addition, the history configuration of any object created from a class can be modified to fit the particular object's requirements. Both event-driven and time-based histories have been combined to ensure the collection of vital information while eliminating the storage of excess data.



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## FUNCTIONS & FEATURES

### Multiple History Vaults

With OA2history's scatter/gather model, you can store (scatter) data in and transparently retrieve (gather) data from multiple history vaults, each running on a different node to provide built-in redundancy. A few simple configuration settings eliminate the possibility of a single point of failure.

OA2history allows the user to find history data in the same way that you use the Internet to request information—simply request a file (address), and it is delivered to the screen. When you want history information, simply drag a trend object onto an OA2view canvas, reference the object attribute—for example, Tank-1011.level, and OA2history delivers the history information requested.

### Comprehensive Data Management

In any enterprise level application, the amount of data collected over the years is staggering. Most history systems collect data well, but do not provide the tools to manage the data. OA2history solves this problem. Files (called repositories) can be created, filled, and moved to storage, automatically. Once full, a repository can be compressed and moved to yet another location—data management simplified.

### SQL and ODBC Support

Common reporting and office software packages, such as Crystal Reports and Excel, and popular enterprise-strength databases can access historical data using standard Microsoft technologies. In fact, all OAenterprise data, including system configuration and performance data, can be accessed using standard SQL queries.

### Supporting Technologies

OA2history supports both Microsoft's Open Database Connectivity (ODBC) technology and its OLE Automation technology. This allows OA2history data and configuration information to be presented in other applications, such as a spreadsheet, a Microsoft Visual Basic application or any product with OLE support.

Information from OA2history can be displayed using ActiveX controls that are supplied with OAenterprise; provided by an OEM, systems integrator, or component builder; or downloaded from the web.

### Scalable & Extensible Architecture

The OA2history component-based architecture, with its scatter/gather model and multiple layers, makes it a scalable, extensible, interoperable, and highly available process historian. OA2history leverages both OAenterprise framework services and Distributed COM (DCOM) technologies extensively.

### Web-Enabled Integration and Connectivity

In addition to ODBC and OLE Automation, OAenterprise provides web access to all OA2history data and configuration parameters through an integrated XML/SOAP server.

