



AVEVA™

## HISTORIAN CLIENTS

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Historian Clients provides data trending and reporting capabilities that enable workers to quickly troubleshoot issues and identify cost-saving opportunities. A perfect complement to the Wonderware Historian, Historian Clients is tightly integrated with Microsoft Office, allowing novices to publish historical reports to the Web or company intranet site.

Customer **FIRST**



## Summary

Historian Clients data analysis and reporting software places real-time and historical process data into the hands of the people most responsible for plant performance: operators, engineers and operations managers.

## Business Value

Historian Clients software delivers near real-time historical process data from the Wonderware Historian to industrial workers at all levels.

- Near real-time process data critical for process troubleshooting activities
- Access to self-service production and performance reports that can be shared via email or the web

## Gain Better Visibility into Your Processes

Wonderware® Historian Clients, tightly integrated with Wonderware Historian, generates real-time and historical data charts and reports allowing operators, engineers and decision makers to quickly visualize what is happening during a production run, a batch or any industrial process. Historian Clients reports and data trends can be viewed, analyzed and consumed via your desktop or laptop. Historian Clients content can also be consumed via web browser, or through external applications such as Microsoft® Office®, Wonderware InTouch® HMI or even custom software clients. Historian Clients supports Cloud based applications, Microsoft SQL Server® 2014 and the new Open Data Protocol (OData) data access interface, delivering on our commitment of using the latest software technologies.

## Rich Data Analysis and Reporting

The Historian Clients' rich data analysis and reporting experience gives you powerful ad hoc query capabilities, as well as preconfigured trending tools needed to drill down into data details to evaluate trends, find root causes, and determine the best solutions to critical process issues.

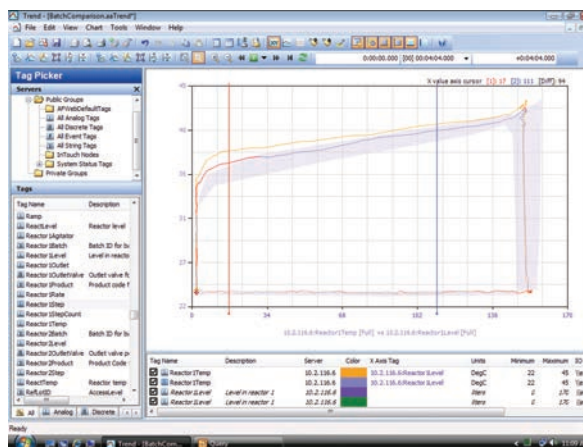
Plant IT personnel tasked with creating and maintaining production reports and regulatory reports can use Historian Clients to pull important information out of the huge volume of plant process data stored in Wonderware Historian. Historian Clients enables you to easily mine data stored in Historian and other SQL data sources. No prior knowledge of SQL is required since a simple tag browser is used to find and select individual tags or entire public or private tag groups. A wide range of standard query types are available.

## Historian Clients Components

Historian Clients includes multiple applications designed to maximize the value of data stored in Wonderware Historian. These applications give you access to plant and process data through easy-to-use interfaces. Historian Clients can help plant workers quickly troubleshoot problems, study potential operational inefficiencies and eliminate the time-consuming process of locating data.

## Trend Client

The Wonderware Historian Trend client is a powerful desktop data graphing tool. Providing a range of charting and formatting capabilities, it is designed to allow users to create highly informative data analysis charts for real-time and historical data trend analysis, faster troubleshooting and process improvement. Multiple types of analysis displays and reports are available as standard, such as Trend charts, X-Y Scatter plots, and Batch trend charts, including 'Golden Batch' comparison.





### Report Client

This add-on for Microsoft Word® enables users to create custom production reports using Wonderware Historian data and save/publish in standard document formats. The Report Client can use the Wonderware Historian Query Client to allow the creation of highly focused reports tailored to specific user requirements.

### Workbook Client

This Microsoft Excel add-on is designed to simplify the creation of process-data reports using Wonderware Historian data. Wonderware Historian Workbook reports can be published to the Wonderware Information Server portal for broad distribution across the plant, intranet or Internet.

### Query Client

This easy-to-use desktop tool for creating database queries removes the need for SQL expertise. Query can be used in tandem with the Wonderware Historian Trend, Workbook or Report Clients. It can also be used as a standalone querying tool for the Wonderware Historian or any SQL-compliant database.

### Web Reporting

Wonderware Historian Trends, Reports and Workbooks can be published via a simple menu selection to the Wonderware Information Server. Using Wonderware Information Server aggregates plant and business data into a powerful web-based production and performance management solution.

### High Availability and Business Continuity

Historian Clients takes full advantage of the Wonderware Historian redundancy capabilities. If the primary Historian goes off-line the Historian Clients automatically switches to the secondary Historian. Once the primary Historian is back online, Historian Clients automatically switches back to the primary with no interruptions to the user.

### Extensibility

To enable seamless integration within your enterprise applications, the Historian Clients also have componentized objects which enable you to integrate the powerful analytical and visual capabilities of the suite within your own applications. Historian Clients is built on ArcestrA technology, which allows unprecedented scalability and functional richness in industrial applications. Using ArcestrA technology, system designers can build complete production and performance management solutions using the single, integrated development platform that ArcestrA delivers – saving time and development resources. Applications can start small and grow into a complete plant-wide or enterprise solution as requirements dictate or evolve.

### Client Control Objects

A powerful library of component-based .NET and ActiveX control versions of the Historian Clients are provided, enabling extensibility options for customers wanting to build custom industrial applications. These client components also are able to be used with Wonderware InTouch HMI, and third-party container applications, such as Microsoft Internet Explorer® and the Visual Studio development system.

### Toolkits

Historian Clients control objects are developed using .NET and C# software technology, enabling them to be seamlessly integrated into today's .NET-based industrial applications. A range of toolkit options are available to save you significant development time.

Shift	Plan	Actual	% of Plan	Prior Actual	% of Prior
1	100	107.2	107.2%	97.4	110.0%
2	100	97.5	97.5%	100.0	96.8%
3	100	99.1	99.1%	94.0	105.5%
7 Total	300	303.8	101.3%	291.0	101.3%
Line	Plan	Actual	% of Plan	Prior Actual	% of Prior
101	80	76.3	95.4%	74.4	102.6%
11	80	72.5	90.6%	78.5	92.3%
12	70	72.4	103.4%	70.2	103.1%
13	70	64.7	92.5%	68.0	84.3%
14 Total	300	303.8	101.3%	291.0	101.3%
Product	Plan	Actual	% of Plan	Prior Actual	% of Prior
17 BK42	45	41.7	92.6%	49.3	84.4%
18 CKR01	30	32.2	107.4%	30.5	105.6%
19 CH03	110	119.1	108.2%	112.0	105.9%
20 DGR11	80	78.5	98.2%	82.5	95.2%
21 EMW08	15	13.6	90.9%	13.6	100.1%
22 SC11F	20	20.6	103.0%	19.4	106.2%
23 Total	300	303.8	101.3%	291.0	101.3%

### Web-Based Report Integration

Wonderware reporting applications can be web-enabled using Wonderware Information Server. This ensures the proper information can be made available to the right individuals wherever they are located. Using client components within Wonderware Information Server delivers a rich and flexible portal experience.

Sample reporting solutions that can reside in Information Server include:

**Table Weaver** - dynamic, drill-through reports and data displays

**Wonderware MES/ Performance** - OEE and equipment downtime reports and KPI dashboards

**Wonderware MES/Operations** - multiple reporting options including:

- Production events and formula reporting (usage and set points)
- Material consumption including comparisons of "plan vs. actual"

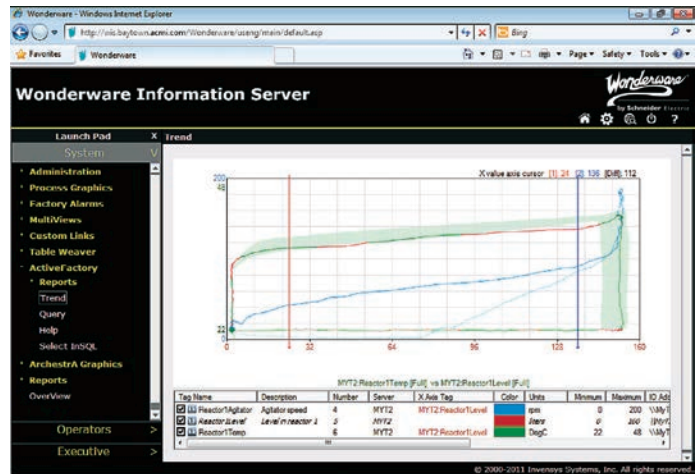
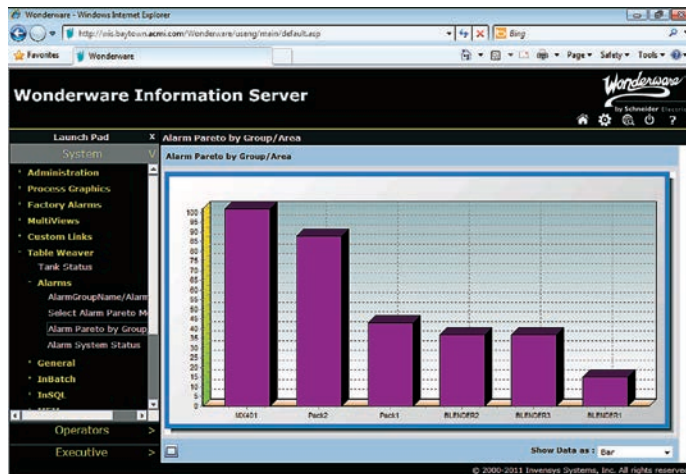
- Consumption and genealogy of materials, equipment, personnel and production events related to a lot, batch or serial number
- Complete traceability and genealogy reporting to help you comply with government regulations

### Cloud-Based Integration

Wonderware offers a number of "managed" or cloud hosted information management solutions that include the Historian Clients or Historian Clients Trend display. These solutions provide enhanced visibility into process and equipment health but without the need to install and manage these solutions on-premise.

### Customer Support and Services

The Customer FIRST for Wonderware Services Program makes it easy to receive the help you need when you need it and to receive the latest version of the Historian Clients and associated Wonderware products.



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