

View all DeltaV process, batch, alarm, and control data

- Displays all DeltaV historian information
- Displays real-time and historical data in a single view
- Combines continuous and event data into a single view
- Features comprehensive analysis capabilities

Introduction

Ever wonder why sudden spikes occur in trend data? Are you looking for a product that helps you analyze your process? Are you ready to eliminate the need for using separate windows to view real-time and historical data for the same tag?

The DeltaV History View Software Suite is the window into your operation's continuous, event, and batch data. It provides easy access to real-time and historical-trend monitoring—with seamless movement between the two.

History View also graphically provides both real-time and historical batch execution data. The DeltaV system automatically generates this data on a batch-by-batch basis.





Benefits

Displays all DeltaV historian information. View continuous, event, or batch historical data, whether collected locally or on another DeltaV node. This viewing allows you to centralize or decentralize your historical collection.

Displays real-time and historical data in a single view. Easily monitor your process over time. Track today, yesterday, or a year ago by simply scrolling forward or backward. Real-time and historical data are combined into a single view. Integration of status on the historical and real-time trend display enables better decision making.

Combines continuous and event data combined into a single view. Combine continuous and event data on a single screen to see when and how an event affects continuous data.

Features comprehensive analysis capabilities.

Analyze historical data such as individual trend movement, time-shift, compress, amplify, and zoom. Collect and maintain recipe data on a batch-by-batch basis so you can make batch-to-batch comparisons and analyses.

Product Description

The DeltaV History View Software Suite gives you a simple, integrated method of configuring charts and monitoring and viewing your operation's historical and real-time trend data on your DeltaV workstations.

The DeltaV system brings a new level of historian integration to automation history and control. Each control module, the fundamental building block of your control strategy, maintains the historical configuration information for all of the module parameters.

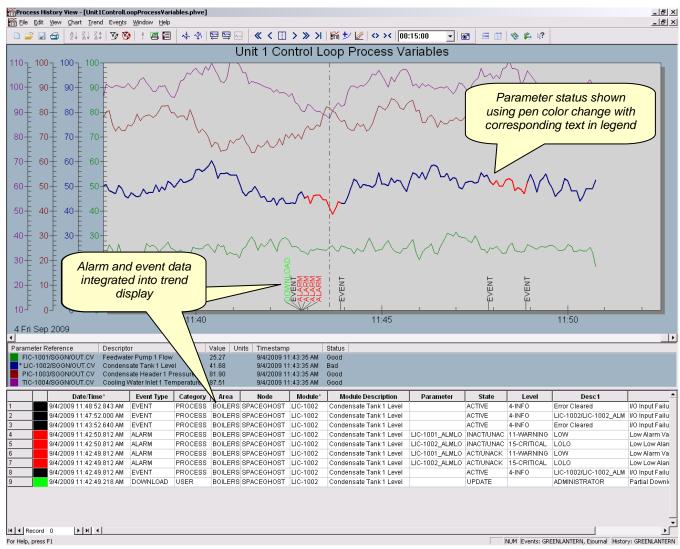
History View provides several types of charts to match your viewing requirements. A chart contains a graph and an event area. Also, charts can be viewed with a single area—events or continuous trends.

History View can be launched in context. For example, if an operator has a faceplate selected in the Operator Interface and selects to view historical data for that tag, History View shows a chart with only the information for that tag.

Process History View and Batch History View make up The History View Software Suite.



The History View Suite displays data from all DeltaV historical databases



Integrated continuous and event history with status in a single view

Process History View

Process History View provides the unique capability of integrating related continuous and event data in a single chart!

This view combines the historical information from two DeltaV Historians—the Event Chronicle and the Continuous Historian—into a single view. Process History View can also be directed to see data from continuous and event historians on other workstations.

While a chart is being viewed, a new parameter can be added on the fly to the existing chart. If the parameter is not already being collected in the Continuous Historian, the trend values are shown as real-time values. Events for this added parameter are also displayed from the Event Chronicle, if available.

A chart contains a graph and an event area. The graph area shows continuous trends with events placed in the chart at the appropriate time. The event area shows a tabular listing of all the related events.

Each graph displays up to eight trended parameters. A graph contains analog, digital, and text data. A graph references real-time and historical parameters.

Each trend on the graph may have unique time references and can be compressed, amplified, and moved vertically. A trend can be selected and moved forward and backward in time relative to other trends for useful variable/trend comparisons.

Trends on a graph are displayed as a curve-to-fit, area, or step-line graph. Each trend can be easily scaled and zoomed in/out. DeltaV security ensures that unauthorized users cannot permanently modify charts.

In DeltaV v9.3 and later releases, the status of the historical and real-time data values can optionally be displayed on the trend. Knowing the status along with the values provides greater understanding of the process which enables better decision making.

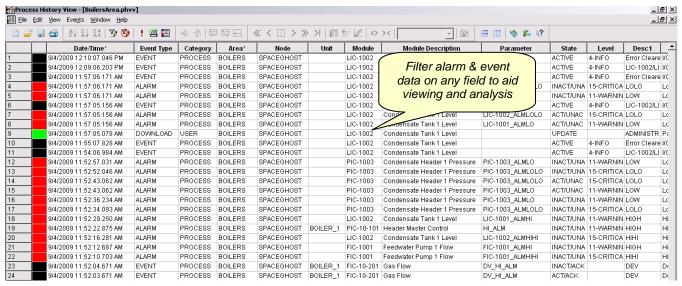
As an alternative to the DeltaV Continuous Historian, a PI Server from OSIsoft may be used in the DeltaV system to serve as the system historian, providing enterprise historian functionality while fully integrated into the DeltaV system engineering and operator functions. In DeltaV v10.3 and later releases, the PI Server may be installed and used on the DeltaV Application Station. In DeltaV v12.3 and later releases, the PI Server may be installed and used on a non-DeltaV PC on any network that has connectivity to a DeltaV Application Station. In either case, Process History View will connect to and read data from the PI Server, providing trending capability of all enterprise historian data.

Each chart can be configured and saved by name. This is done after the graph is configured. The events for each module referenced in the graph are automatically displayed in the graph and event areas. The Process History View shows you any events for that module at the correct time, right in the graph. All events are also shown in a tabular format below the graph, in the event area

All events collected in the Event Chronicle can be displayed. Operational events include operator changes, tuning parameter changes, control module installations, alarms (new, acknowledged, and cleared) and device status.

Events are displayed in chronological order and are colorcoded by event type. You can easily analyze operational events by filtering the list of events—simply double-click on an item and the view is filtered for just that selection. So if, for instance, you want to see all the changes that Joe made, just double click on his name!

Event filters are easily enabled and users may define or preset filters for querying capability based on time, event, user and an individual module, among others.



Events displayed in chronological order from the Event Chronicle

Batch History View

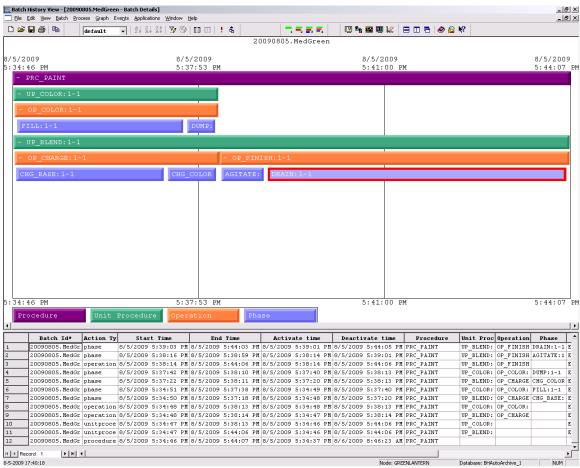
Batch History View provides several ways to view batch history in a graphical format. Allows you to filter the list of available batches based on criteria such as specific date/time period or batch ID name.

Batch historical data is displayed on a batch-by-batch basis for easy comparison and analysis. The *Batch Overview* display presents all of the available batches in a common chart, making it easy to locate anomalies among batches.

You can also learn more about what occurred during the execution of a particular batch by selecting the Batch Details view. From here, you can "drill down" into any element of the procedure and get a listing of events using the Batch Events view. This view lists all of the batch events that were automatically recorded and stored during that portion of the procedure.

The Batch Comparison view allows you to do the same thing for two different batches. Batches can be synchronized at a particular point in the recipe such as the start or end of a procedure, unit procedure, operation or phase and can be displayed in batch-relative time to facilitate comparing the behavior between the batches.

DeltaV software also tightly integrates batch history with process history. This means you can easily view process history for a module over a time period that corresponds to any element of the batch. By selecting an element of the batch from the chart, you can not only obtain a historical trend for the module, but also obtain any process-alarms and events that occurred during that portion of the batch. Process History View is launched in context when viewing process trends from Batch History View.



Batch History View displays batch details in a Gantt chart view

Ordering Information

Description	Model Number
History View Software Suite	VE2145

Related Products

- **DeltaV Continuous Historian.** Captures analog, discrete, and text data and stores for future analysis. Each DeltaV workstation includes a collection of up to 250 parameters. The Application Station can optionally collect up to 30,250 parameters.
- Event Chronicle. Captures process, system and user alarms and events and stores them in a Microsoft SQL Server database.
- Batch Historian. Automatically collects and stores batch recipe execution data from the DeltaV Batch Executive and process alarm and event data from the DeltaV Event Chronicle.
- History Analysis. Provides Web-based viewing and analysis of DeltaV batch, continuous and alarm and event data.
- DeltaV Analyze. Provides Web based analysis of alarms and events in either the Event Chronicle or Plantwide Event Historian.
- Enterprise Historian. OSIsoft PI Server used as the DeltaV system historian, providing enterprise historian functionality while fully integrated into the DeltaV system engineering and operator functions.

Prerequisites

- The History View Suite is provided with the ProfessionalPLUS, Professional and Operator Station software suites and may be optionally added to the Base Station and Application Station.
- A DeltaV Continuous Historian, legacy historian or enterprise historian is required for viewing continuous process data.
- An Event Chronicle is required for viewing alarm and event data.
- A Batch Historian is required for viewing batch data.
- Enterprise historian functionality requires the purchase of the OSIsoft PI Server and PI DeltaV Smart Connector interface from OSIsoft.

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