Load History

Block Group:	Data Services
Icon:	no icon

The Load History block retrieves information about the value history of a data node.

To automatically create a Load History block for a node at a particular path, you can drag that node's  **History** icon from the Metrics panel into the dataflow window.

For information on using dataflow blocks, see Dataflow.

Input/Output Properties

The following properties of the Load History block can take input and give output.

- invoke *(trigger)*
- enabled *(boolean)*
- interval *(number)*
- autoRun *(boolean)*
- timeout *(number)*
- path *(string)*
- timeRange *(date range)*
- dataInterval *(enum or string)*
- rollup *(enum or string)*
- header *(enum or string)*
- delta *(enum or string)*

invoke causes the history to be loaded. The **invoke** property only works if **enabled** is set to TRUE.

enabled specifies whether the Load History block is enabled.

- **TRUE**—The history loads as specified by **invoke**, **autoRun**, and **interval**.
- **FALSE**—The history does not load.

interval specifies how often the history is loaded, in seconds. A value of 0 means that the history is reloaded on **autoLoad** or **invoke** only.

autoRun specifies whether the history is loaded automatically.

- **TRUE**—The history is loaded every time any property is changed. The first time that the **path** property is populated counts as a change.
- **FALSE**—The history is loaded only when the **invoke** property is triggered, or at the specified **interval**.

timeout specifies how long the loader attempts to load the history before the request is canceled.

path specifies the history for which to return information.

timeRange specifies the date and time range to return the history for. You can click the button and use the date range picker to specify a range.

dataInterval specifies the date or time interval between each consecutive pair of data points.

rollup specifies the type of rollup used. The value of **rollup** can be one of the following:

- **Avg**—The average of all number values for the interval
- **Min**—The smallest number value for the interval
- **Max**—The largest number value from the interval
- **Sum**—The sum of all number values for the interval
- **First**—The first value for the interval
- **Last**—The last value for the interval
- **Count**—The number of non-null values that exist for the interval

header specifies which string is used to name the "value" column in the output table.

- **Default**—The default string "value"
- **Name**—The name of the data node
- **Parent**—The name of the data node's parent
- **Parent_Name**—The names of both this node and its parent

delta specifies what is in the "value" column of the output table.

- **None**—The value collected at the given time
- **With previous**—The difference between the values in this row and the previous one
- **With next**—The difference between the values in this row and the next one

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Output Properties

The following properties of the Load History block can give output but cannot take input.

- loading *(boolean)*
- output *(table)*
- error *(string)*

loading returns whether the history is currently loading.

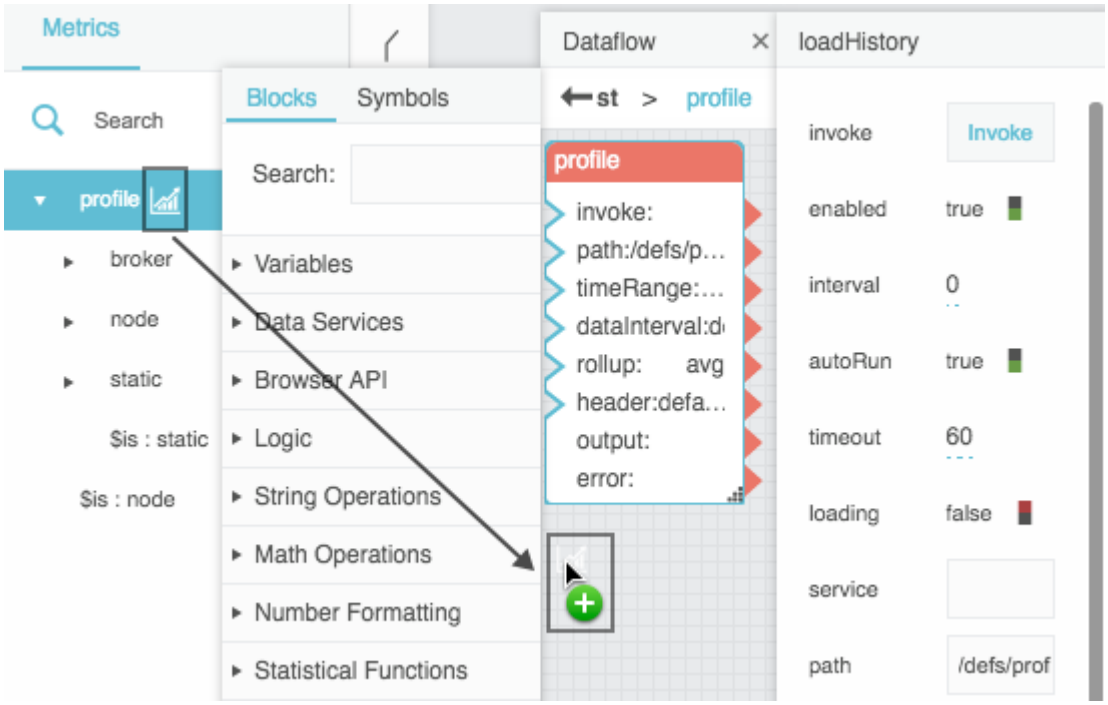
output returns a table of the given history's values. Columns are:

- **timestamp**—The time when the data was collected
- **value**—The data node's value, or the delta if specified
- **status**—The status of the data node at the time of collection

error returns the error string, if any.

Example

The following image demonstrates how to create a Load History block by dragging a History icon to the dataflow window.



Previous: Load Value

Next: Browser API