

# History

## Description

**History** is an application designed to track the progress of a job through various stages of a workflow. At each step, it collects information about the job's activities. Upon reaching the final stage, users can export the job's history in various formats such as CSV, JSON, or XML.



## Compatibility

Switch Switch 2023 fall or higher.

## Connections

- One incoming connection
- One outgoing data connection
- One outgoing Log Connection (optional)

## Use case

- Facilitate monitoring the progression of each stage the job has undergone.
- Maintain a record of the diverse variable values at each stage.

## Flow element properties

- **History step**  
Step value that will be logged in the **History** dataset.  
“Current” default value, will use the name of the flow element.
- **Custom values**  
Describe custom value that will be logged in the **History** dataset.  
Format must be “tag=value”, one per line.
- **Internal dataset name**  
Name of the internal dataset where **History** will log value in a JSON format.  
No need for a “log” outgoing connection in order to store this log.
- **Export history**  
If set to yes, a dataset with the **History** will be generated for the “Log” outgoing connection.
  - **Dataset model**  
Model of dataset that will be used for the Log outgoing connection.  
Choose between CSV, JSON or XML.
  - **Delimiter**  
Delimiter to use in the CSV file.  
Possible values:
    - Semicolon
    - Comma
    - Tabulation
    - Colons
    - Space
    - CustomIf “Custom” option is selected, you must choose a “Custom delimiter”.

## History example

CSV :

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	id	flowName	step	jobName	jobPriority	jobState	userName	userFullName	userEmail	timeStamp	chrono	custom_warnings	custom_errors	custom_action
2	1	New flow 1	Start	ChromatiqueHopAle33cl.pdf	0	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:38:02	0.000				
3	2	New flow 1	Pitstop	ChromatiqueHopAle33cl.pdf	0	Error	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:38:07	4.515	0	3	
4	3	New flow 1	checkpoint	ChromatiqueHopAle33cl.pdf	0	Error	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:39:32	85.550			retry
5	4	New flow 1	Pitstop	ChromatiqueHopAle33cl.pdf	0	Error	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:39:37	4.670	0	3	
6	5	New flow 1	checkpoint	ChromatiqueHopAle33cl.pdf	0	Error	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:40:43	65.412			approve
7	6	New flow 1	Export	ChromatiqueHopAle33cl.pdf	0	Error	TD	Thomas Deschamps	tdeschamps@bluewest.fr	05/04/2024 18:40:44	1.221			

XML :

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<root>
  <history>
    <id>1</id>
    <flowName>New flow 1</flowName>
    <step>Start</step>
    <jobName>ChromatiqueHopAle33cl.pdf</jobName>
    <jobPriority>0</jobPriority>
    <jobState/>
    <userName>TD</userName>
    <userFullName>Thomas Deschamps</userFullName>
    <userEmail>tdeschamps@bluewest.fr</userEmail>
    <timeStamp>05/04/2024 18:38:02</timeStamp>
    <chrono>0.000</chrono>
  </history>
  <history>
    <id>2</id>
    <flowName>New flow 1</flowName>
    <step>Pitstop</step>
    <jobName>ChromatiqueHopAle33cl.pdf</jobName>
    <jobPriority>0</jobPriority>
    <jobState>Error</jobState>
    <userName>TD</userName>
    <userFullName>Thomas Deschamps</userFullName>
    <userEmail>tdeschamps@bluewest.fr</userEmail>
    <timeStamp>05/04/2024 18:38:07</timeStamp>
    <chrono>4.515</chrono>
    <custom_warnings>0</custom_warnings>
    <custom_errors>3</custom_errors>
  </history>
</root>
```

JSON :

```
{
  "history": [
    {
      "id": 1,
      "flowName": "New flow 1",
      "step": "Start",
      "jobName": "ChromatiqueHopAle33cl.pdf",
      "jobPriority": 0,
      "jobState": "",
      "userName": "TD",
      "userFullName": "Thomas Deschamps",
      "userEmail": "tdeschamps@bluewest.fr",
      "timeStamp": "05/04/2024 18:38:02",
      "chrono": "0.000"
    },
    {
      "id": 2,
      "flowName": "New flow 1",
      "step": "Pitstop",
      "jobName": "ChromatiqueHopAle33cl.pdf",
      "jobPriority": 0,
      "jobState": "Error",
      "userName": "TD",
      "userFullName": "Thomas Deschamps",
      "userEmail": "tdeschamps@bluewest.fr",
      "timeStamp": "05/04/2024 18:38:07",
      "chrono": "4.515",
      "custom_warnings": "0",
      "custom_errors": "3"
    }
  ]
}
```

### Flow example

