

Global Data

Description

Global Data will allow you to save private data key(s), dataset(s) or all information from a job (including private data, and datasets) in the Switch database.

Once **set** in any **Global Data** element, you can **get** multiple **Global Data** at once, anywhere else in Switch at any moment with another **Global Data** element regardless if it's the same job or not.

Want to see all **Global Data** available? **List** them in a dataset.

Do not need a specific set of **Global Data** anymore? Simply **delete** them.

Compatibility

Switch 2021 Spring (node.JS).

Connections

At least one incoming connection.
TrafficLight outgoing connection*.



**Refer to each action mode section for output behaviour.*

Summary

Description	1
Compatibility	1
Connections	1
Summary	2
Example use case	3
Flow element properties	4
Action	4
Set	5
Global data key	5
Attach mode	5
Dataset(s)	5
Job Information)	5
Private data	6
Separator	6
Clean up this Global Data after a delay	6
Unit	6
Delay	6
Important notes :	6
Get	7
Global data key(s)	7
List	7
Delete	7
Global data key(s)	7
Show debug log	7
Flow Example	8
Flow 1 : Update/set available press list	8
Flow 2 : Send to press	9

Example use case

The primary use is to enable a developing concept known as "Environment variable". You can [set](#) passwords, IP address, root folder, available press list, email address and so on... With **Global Data**, no need to change them manually everywhere in the flow. Once changed, it is set globally.

In conjunction with a submit point, you can also [set](#) them with Switch Client, no need to open the Switch designer for everyday changes.

Once [set](#) in your **Global Data** element, you can [get](#) them in another **Global Data**.

Example :

A Prepress manager needs to dispatch all his jobs between multiple numeric presses. But regularly some of those presses need shutdown (maintenance, number of clicks...). He wants to make this press unavailable for prepress users.

With a submit point he can create a list of available numeric presses and use this information in Switch to show the available press for the users.

This flow is described in this chapter : [Flow Example](#).

We believe that a lot of other possibility are up with **Global Data**:

- Store the last email address for BAT;
- Temporary email template (holidays, christmas...);
- Stock/Restore job informations when a job goes out for another software and come back;
- ...

Flow element properties

- **Action**

Action to use.

Possible values:

- **Set**
Save dataset(s), private data key(s) or job information in the Switch database.
- **Get**
Restore one or many **Global Data** key(s) for the actual job.
- **List**
Attach a dataset to the actual job with a list of all **Global Data** keys and their information.
- **Delete**
Delete one or many **Global Data** key(s) definitively.

- **Set**

Set action is used to set value(s) in a single **Global Data**.

- **Global data key**

The global data key is the "name" of your **Global Data**.

You can see a list of used Global data key(s) with the "Select from library" option.

Note that If you use an already used name, the new value(s) will replace the old one(s).

- **Attach mode**

Either you want to attach:

- **Dataset(s)**

"Automatic" default value will store all the dataset(s) associated with the current job.

If you want specific dataset(s) name, list them, one per line.

Output behaviour:

Case	Output level
All dataset(s) specified stored in the Global Data .	Success
Some of the specified dataset(s) does not exist and can't be stored in the Global Data .	Warning
None of the specified dataset(s) exist. Automatic : No dataset for the actual job.	Error

- **Job Information**

All* job information including datasets and private data will be stored in the **Global Data**.

Output behaviour:

Case	Output level
All information saved	Success
The job doesn't contain any particular information. The job information will be saved with a dummy private data in order to work	Warning

**Job information will not contain the following value due to Switch scripting limitation:*

- [Job.State];
- [Job.Priority];
- [Job.Origin].

- **Private data**

"Automatic" default value will store all the private data associated with the current job.

If you want to define a specified list, specify one private data per line.

It is possible to create a new private data or re-attribute a value using a separator and a new value:

- key1 // private data "key1" will get its current value.
- key2=value // private data "key2" will have a new value;

- **Separator**

The separator is the string used to make the distinction between the private data key, and its value. Default is "=".

Output behaviour :

Case	Output level
All specified private data stored in the Global Data.	Success
Some of the specified private data does not exist and can't be stored in the Global Data .	Warning
None of the specified private data exists. Automatic : No private data for the actual job.	Error

- **Clean up this Global Data after a delay**

Either if you want to keep this **Global Data** forever or if you want to delete it after a delay.

The cleanup will be invoked at the start of every launch of the app ("Select from library included").

- **Unit**

Possible values: Hours / Days / Years

- **Delay**

The delay you want to keep your **Global Data** for.

Important notes :

- It's highly recommended to delete your old global data that you won't use anymore for improved performance.
- Since **Global Data** will be saved in a "string" format, Opaque dataset files will be read as-is in UTF8 and non-text files could get errors when trying to restore them.
- In general, it is not recommended to store large binary files however, if you have to do so, you can encode it in base 64 before storing it to avoid any encoding problem.

- **Get**

Get action is used to restore values from a single or many **Global Data**.

- **Global data key(s)**

Global data key(s) that you want to restore, one per line.

We advise you to use the "Select from library" option.

Values will be set automatically as private data keys, or datasets depending on their type.

Output behaviour:

Case	Output level
All specified Global Data restored.	Success
Some of the specified Global Data does not exists and can't be restored	Warning
None of the specified Global Data exists.	Error

- **List**

Generate a dataset named "globalDataList" with all the global data keys and their expiration date.

Output behaviour:

Case	Output level
Global Data listed as expected.	Success
No Global Data exists at all.	Error

- **Delete**

Delete action is used to definitively remove a specific list of Global data key(s).

- **Global data key(s)**

Global data key(s) that you want to delete, one per line.

We advise you to use the "Select from library" option.

Output behaviour:

Case	Output level
Global data key(s) not present anymore	Success

- **Show debug log**

Prompt detailed information in the log.

Flow Example

The following flows are available on the **Global Data** Appstore page as a resource.

1. Flow 1 : Update/set available press list

Flow



a. Submit point setting

Property	Value
Element type	Submit Point
Name	Set available press list
Description	
Display name	Default
Display description	
Thumbnail	None
Flow stage	
Attach hierarchy info	No
Attach user as email info	No
Attach extra email info	
Submit	Metadata only
<i>Metadata fields</i>	Metadata fields defined
<i>Dataset name</i>	availablePressList
<i>Invalidate user metadata cache on login</i>	Yes
<i>Invalidate metadata cache condition</i>	None

S Define metadata fields: Metadata fields
 ✕

Metadata Fields	Field Properties
<input checked="" type="checkbox"/> Numeric press 1	Label: <input type="text" value="Numeric press 1"/>
<input checked="" type="checkbox"/> Numeric press 2	Description: <input type="text"/>
<input checked="" type="checkbox"/> Numeric press 3	Data type: <input type="text" value="Single-line text"/>
<input checked="" type="checkbox"/> Numeric press 4	Data format: <input type="text"/>
<input checked="" type="checkbox"/> Numeric press 5	Default: <input type="text"/>
	Remember last value: <input type="text" value="Yes"/>
	Read only: <input type="text" value="No"/>
	Value is required: <input type="text" value="No"/>
	Display metadata field: <input type="text" value="Yes"/>
	Cache dynamic values: <input type="text" value="Do not cache"/>

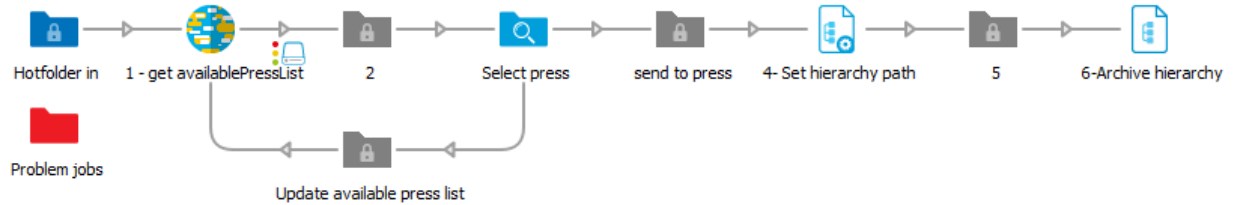
b. Global data settings

Properties
✕

Property	Value
Element type	Global Data
Name	2- set AvailablePressList
Description	
Action	Set
<i>Global Data key</i>	
<i>Attach mode</i>	Dataset
<i>Dataset(s)</i>	Automatic
<i>Clean up this global data after a delay</i>	<input type="text" value="No"/>
Show debug log	No

2. Flow 2 : Send to press

a. Flow



b. Global data “get” settings

Properties	
Property	Value
Element type	Global Data
Name	1 - get availablePressList
Description	
Action	Get
<i>Global data key(s)</i>	availablePressList
Show debug log	No

c. Check point settings

Define metadata fields: Metadata fields

Metadata Fields	Field Properties
Press list	Label: Press list Description: Data type: Dropdown list Data values: h variables defined Ignore duplicates: Yes Default: h variables defined Remember last value: No Read only: No Value is required: Yes Display metadata field: Yes Cache dynamic values: Do not cache

Define multi-line text with variables: Data values

Enter a multi-line text with variables...

```

[Metadata.Text:Path="/field-list/field[1]/value",Dataset="availablePressList",Model="XML"]
[Metadata.Text:Path="/field-list/field[2]/value",Dataset="availablePressList",Model="XML"]
[Metadata.Text:Path="/field-list/field[3]/value",Dataset="availablePressList",Model="XML"]
[Metadata.Text:Path="/field-list/field[4]/value",Dataset="availablePressList",Model="XML"]
[Metadata.Text:Path="/field-list/field[5]/value",Dataset="availablePressList",Model="XML"]
          
```

Define variables

OK Cancel