

# Switch XML Simplify



## Description

Switch XML Simplify does exactly what it is named for. It will simplify XML generated from Switch Client either by a Submit point or a Checkpoint.

## Compatibility

Switch 2020 Fall.

## Connections

At least one incoming connection.  
Traffic light data outgoing connection

## Output behaviour

Case	Output connection
All dataset compliant and simplified	<b>Success</b>
Some dataset compliant, or only a part simplified	<b>Warning</b>
No dataset available or no dataset compliant	<b>Error</b>

## Example use case

By default, a typical Xpath from a Switch generated XML looks like this :

- `/field-list/field[4]/field-list/field[2]/value`
- `/field-list/field[tag='Press Type']/field-list/field[tag='Press']/value`

It has several flaws :

- If you change the field order in your submit point, it will break your Xpath;
- It's hardly human readable;
- Evaluating workaround trick (eg : replacing the field number with tag='XXXX') will
  - need you to edit the xpath manually.
  - not work if you have a quote, or a double quote, in your tag;

### How does it work?

Just use the app as a flow element and the app default behavior will add a new dataset with a suffix for each Switch client XML compliant.

Now your Xpath is simplified and will look like this : `/Xml/pressType/press`

## Example XML

Before

After (indented mode)

After (flattened mode)

<pre> 1 &lt;field-list&gt; 2 &lt;field Id="spMF_2_6"&gt; 3 &lt;tag&gt;Order&lt;/tag&gt; 4 &lt;type&gt;number&lt;/type&gt; 5 &lt;required&gt;&gt;false&lt;/required&gt; 6 &lt;value&gt;123&lt;/value&gt; 7 &lt;/field&gt; 8 &lt;field Id="spMF_4_6"&gt; 9 &lt;tag&gt;Customer&lt;/tag&gt; 10 &lt;type&gt;string&lt;/type&gt; 11 &lt;required&gt;&gt;false&lt;/required&gt; 12 &lt;value&gt;abc&lt;/value&gt; 13 &lt;/field&gt; 14 &lt;field Id="spMF_5_6"&gt;... 15 &lt;/field&gt; 16 &lt;field Id="spMF_23_6"&gt;... 17 &lt;/field&gt; 18 &lt;field Id="spMF_18_6"&gt;... 19 &lt;/field&gt; 20 &lt;field Id="spMF_9_6"&gt; 21 &lt;tag&gt;Bat needed?&lt;/tag&gt; 22 &lt;type&gt;boolean&lt;/type&gt; 23 &lt;value&gt;&gt;true&lt;/value&gt; 24 &lt;field-list&gt; 25 &lt;field Id="spMF_19_6"&gt; 26 &lt;tag&gt;Email&lt;/tag&gt; 27 &lt;type&gt;string&lt;/type&gt; 28 &lt;required&gt;&gt;true&lt;/required&gt; 29 &lt;value&gt;appstore@bluewest.fr&lt;/value&gt; 30 &lt;/field&gt; 31 &lt;field Id="spMF_22_6"&gt; </pre>	<pre> 1 &lt;?xml version="1.0" encoding="UTF-8" standalone="yes" ?&gt; 2 &lt;Xml&gt; 3 &lt;order&gt;123&lt;/order&gt; 4 &lt;customer&gt;abc&lt;/customer&gt; 5 &lt;productType value="Flyer"&gt; 6 &lt;height&gt;210&lt;/height&gt; 7 &lt;width&gt;297&lt;/width&gt; 8 &lt;rectoVerso&gt;&gt;true&lt;/rectoVerso&gt; 9 &lt;/productType&gt; 10 &lt;pressType value="Offset"&gt; 11 &lt;printingColor&gt;CMYK&lt;/printingColor&gt; 12 &lt;press&gt;XL106&lt;/press&gt; 13 &lt;/pressType&gt; 14 &lt;dueDate&gt;2021-05-27&lt;/dueDate&gt; 15 &lt;batNeeded value="true"&gt; 16 &lt;email&gt;appstore@bluewest.fr&lt;/email&gt; 17 &lt;gender&gt;Mr&lt;/gender&gt; 18 &lt;firstName&gt;John&lt;/firstName&gt; 19 &lt;lastName&gt;Smith&lt;/lastName&gt; 20 &lt;/batNeeded&gt; 21 &lt;/Xml&gt; </pre>	<pre> 1 &lt;?xml version="1.0" encoding="UTF-8" standalone="yes" ?&gt; 2 &lt;Xml&gt; 3 &lt;order&gt;123&lt;/order&gt; 4 &lt;customer&gt;abc&lt;/customer&gt; 5 &lt;productType&gt;Flyer&lt;/productType&gt; 6 &lt;height&gt;210&lt;/height&gt; 7 &lt;width&gt;297&lt;/width&gt; 8 &lt;rectoVerso&gt;&gt;true&lt;/rectoVerso&gt; 9 &lt;pressType&gt;Offset&lt;/pressType&gt; 10 &lt;printingColor&gt;CMYK&lt;/printingColor&gt; 11 &lt;press&gt;XL106&lt;/press&gt; 12 &lt;dueDate&gt;2021-05-27&lt;/dueDate&gt; 13 &lt;batNeeded&gt;true&lt;/batNeeded&gt; 14 &lt;email&gt;appstore@bluewest.fr&lt;/email&gt; 15 &lt;gender&gt;Mr&lt;/gender&gt; 16 &lt;firstName&gt;John&lt;/firstName&gt; 17 &lt;lastName&gt;Smith&lt;/lastName&gt; 18 &lt;/Xml&gt; </pre>
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## Flow element properties

- **Dataset**

Name of the switch datasets you want to simplify.  
If "Automatic" is selected, the app will scan all the dataset.

- **Action**

Choose between this two actions :

- Create a new dataset : Create a new one with a suffix.
- Replace : Replace the dataset selected by the new simplified one

- **Add suffix**

If the action "Create a new dataset" is selected, you must determine the suffix to add to the original dataset.

- **Mode**

Either you want to flatten or keep original indentation.  
If "Indented" is selected, nodes with sublevel will have their value attached as an attribute.

eg :

```
<productType value="Book">
```

- **Write field info as attribute**

Either or not to attach to each field info original attributes : Tag, Type, Format, Required...

```
<batNeeded tag="Bat needed?" type="boolean">false</batNeeded>
```

It can be useful to keep track of the original tag syntax (see tag cleanup strategy)

- **Tag cleanup strategy**

In order to work with XML syntax, the field name needs to be parsed to remove unwanted characters.

The new syntax could be one of :

- camelCase;
- kebab-case;
- PascalCase;
- snake\_case.

## XML compliant

Only compliant XML will be parsed.

Compliant XML must follow this syntax :

```
<field-list>
  <field></field>
  </tag>
  </value>
  </field-list> // optional
</field>
</field-list>
```

Any other xml tag between the `<field></field>` will be skipped or added as an attribute if the according option is selected.

## Example flow

