Multiplexer Element

Construct an output data flow using two input data flows a multiplexing rule.

There are the following multiplexing rules:

- 1 to 1 – for every message from the first input data flow it gets only one message from the second input data flow and puts them to the output.
- 1 to many, Many to 1 – for every message from the first input data flow it gets every message from the second input data flow and puts them to the output.
- Streaming mode – puts every message from the first and the second input data flows to the output.

Also see the *Find Substrings at Sequences*, *Search for TFBS* examples with *Multiplexer* element.

Parameters in GUI

Parameter	Description	Default value
Multiplexing rule	How to multiplex the input data flows. Available values are: • 1 to 1 • 1 to Many • Many to 1 • Streaming mode	1 to 1
If empty input	Specifies how to multiplex the data if one of input ports produces no data. It can be used for 1 to 1 multiplexing rule. Available values are: • Fill by empty values (if one of input ports produces no data, get data from another port only and put them to the output.) • Truncate (if one of input port produces no data, then do not output anything.)	Fill by empty values

Parameters in Workflow File

Type: multiplexer

Parameter	Parameter in the GUI	Type
multiplexing-rule	**Multiplexing rule**	*string*
empty-input-action	**If empty input**	*string*

Input/Output Ports

The *Multiplexer* has ports but has not slots, because its use the whole data flow.

The element has 2 *input port*:

Name in GUI: *First input data flow*

Name in Workflow File: input-data-1

Name in GUI:*Second input data flow*

Name in Workflow File: input-data-2

The element has 1 *output port*:

Name in GUI: *Multiplexed output data flow*

Name in Workflow File: output-data