



# VIZUALIZATOR USER MANUAL

PROJECT ORION

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# 1 Product description

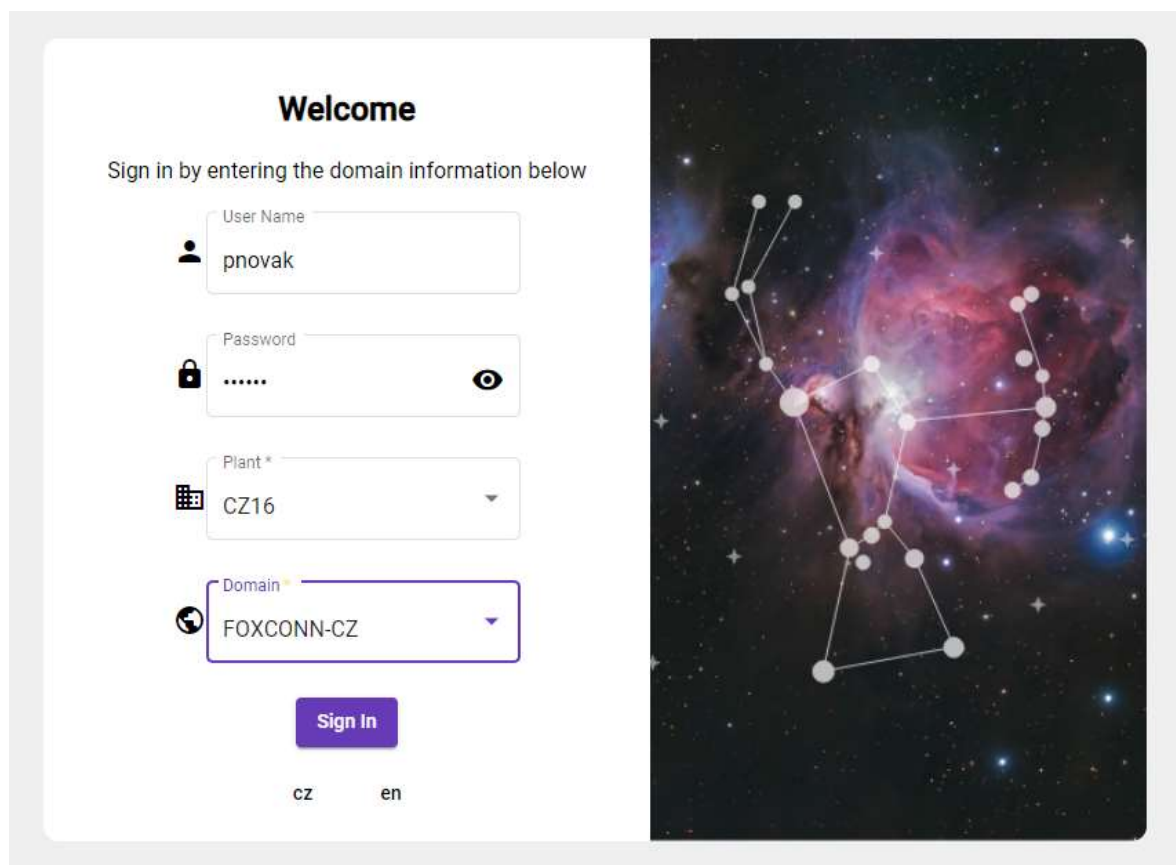
Vizualizator is a web application used to display already existing processes in Shopfloor. As a web application, it allows access from different types of devices, unlike the original process viewer, which is only executable as a desktop application. The biggest advantage lies in the way of displaying processes, where instead of parameters arranged in tables can be seen a complete diagram together with parameters for individual processes, events and actions. This ensures better visibility when the flow of the processes is clearly visible. It enables to get an overview of processes and their details for end users from the business.

Users log in to the vizualizator using a domain account as they are used to in Shopfloor. As in Shopfloor, users are affected by the right to the menu item (vizualizator). Rights are assigned to groups.

Configurator is an extension of the vizualizator that will not be part of Shopfloor, but an emerging Orion. The extension will bring the possibility of editing existing processes and creating new ones in the visual editor. The user will be able to set processes according to their needs without the need for SWD intervention. Another benefit will be the complete documentation of actions including parameters. The user will have an overview of the action functions and what parameters they can set.

## 2 Login page

Users log in to the vizualizator using a domain account as they are used to in Shopfloor. All fields must be filled. Every user has an access to plants based on their group rights. User name is without a domain.



**Welcome**

Sign in by entering the domain information below

User Name  
pnovak

Password  
.....

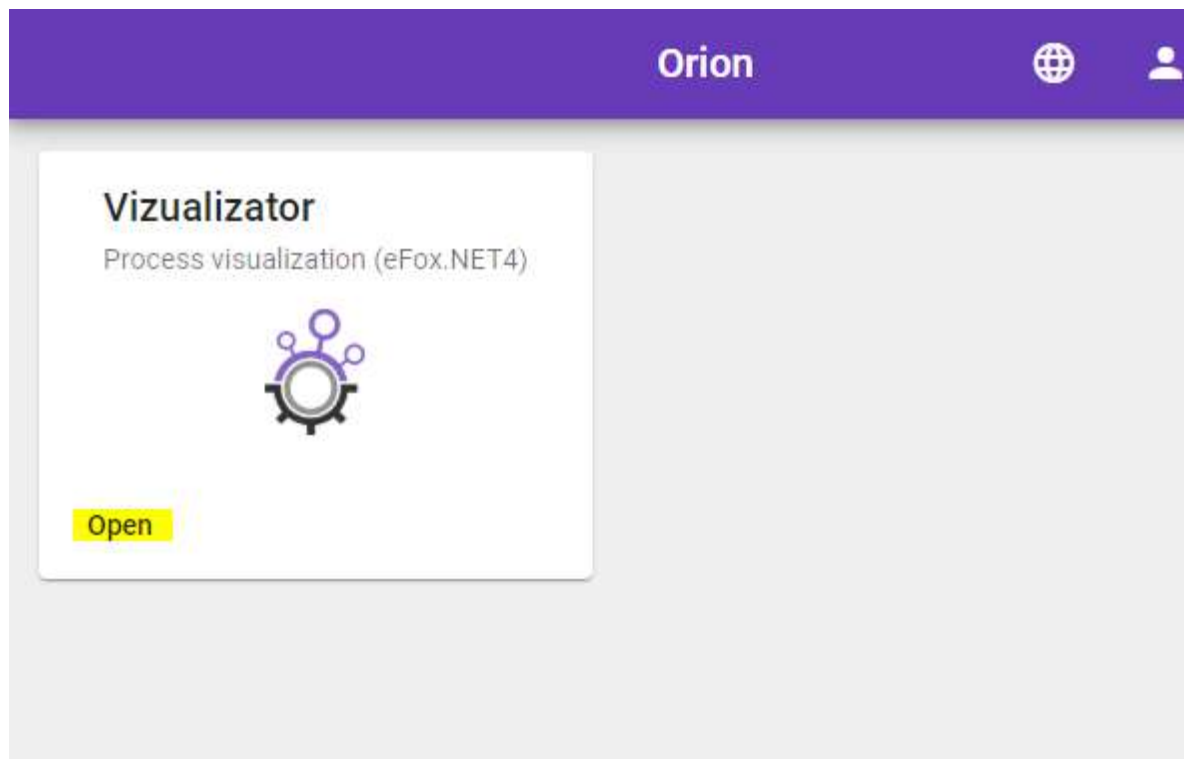
Plant \*  
CZ16

Domain  
FOXCONN-CZ

**Sign In**

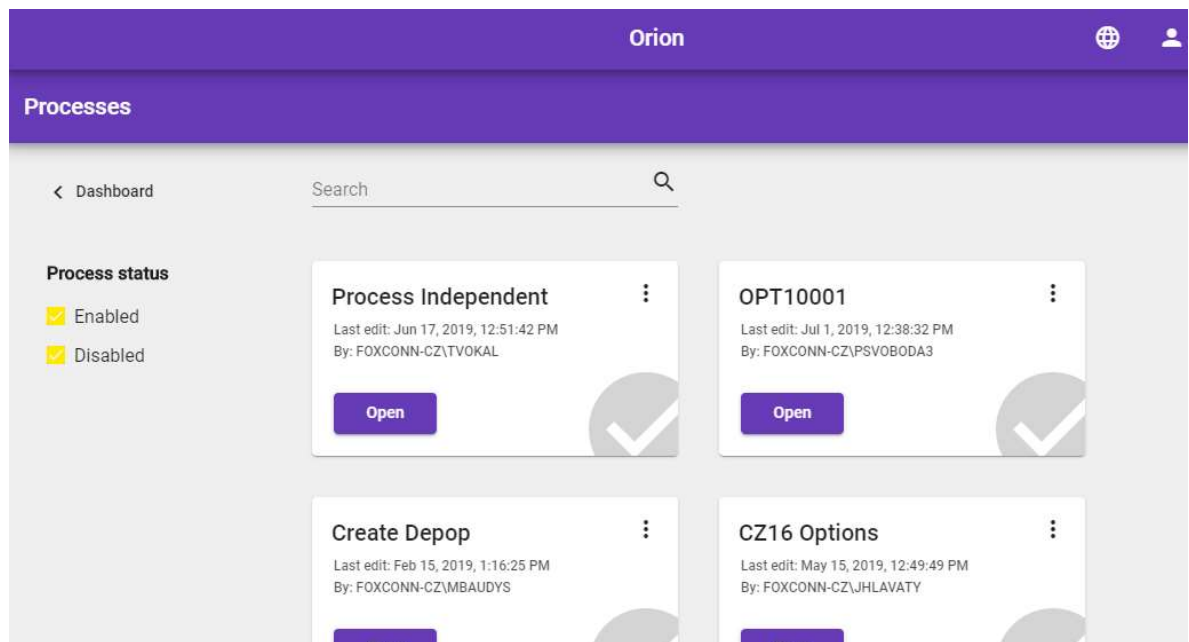
cz en

After the user logs in, they see the dashboard tiles. When accessing vizualizator user must click on Open button.



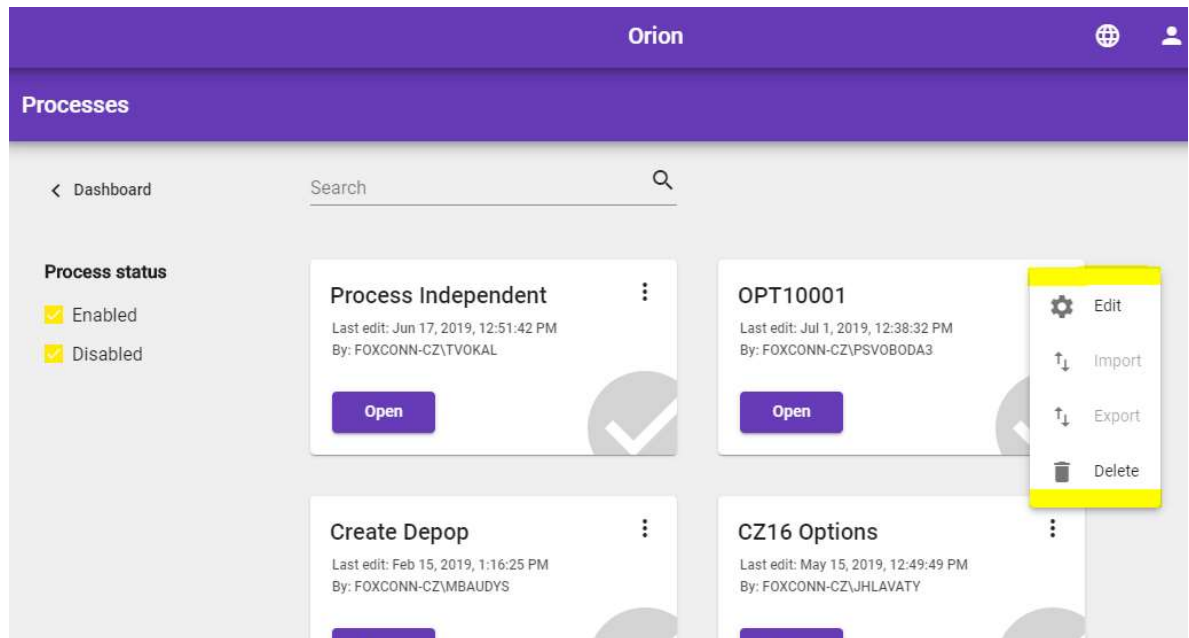
### 3 Search and filter processes

That reveals list of all existing processes within the selected plant. User is able to sort out the processes using checkbox filter of enabled and disabled process status. A search bar is also included to help locate the specific process using its name or part of its name.



## 4 List of processes – where to find parameters and how to open process

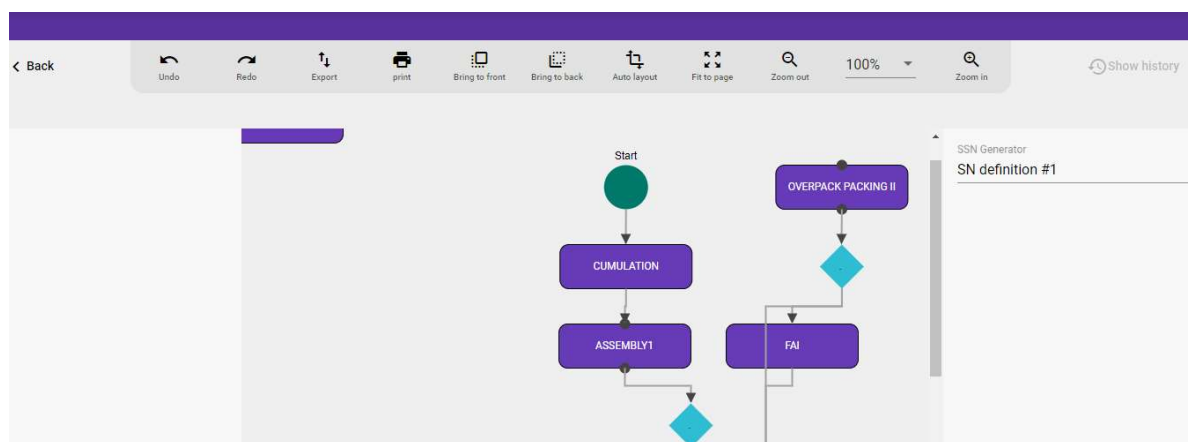
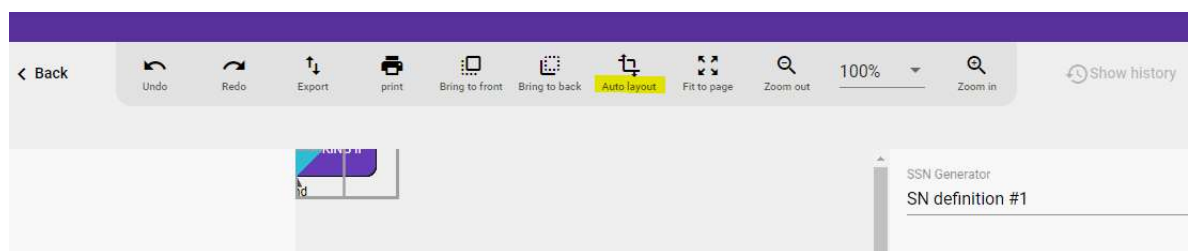
On the right side of every process tile is hidden a sub-menu (three dots) for adjusting the process parameters (e.g. SSN Process Generator). In order to enter a specific process user must click on Open button.



## 5 Control panel

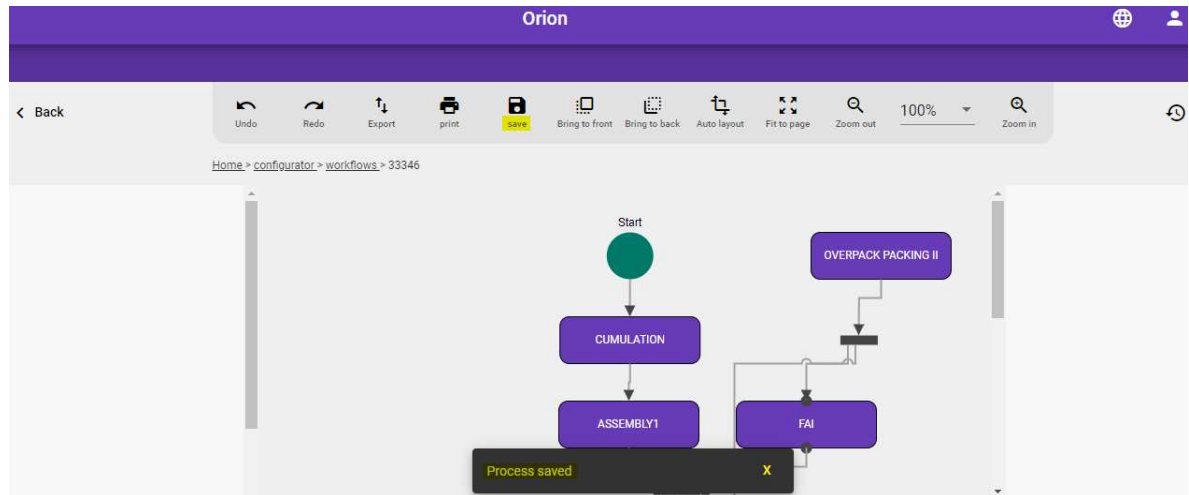
The first thing the user sees after opening a process is a control panel of the diagram. Most of the items are pretty self-explanatory and intuitive. They are used for manipulation with elements of the diagram, undoing or redoing changes, printing diagram or exporting it into jpg file.

One that is very important for the user especially if the diagram is opened for the first time is the item „Auto layout“. This reveals the diagram in full picture by auto layouting elements.

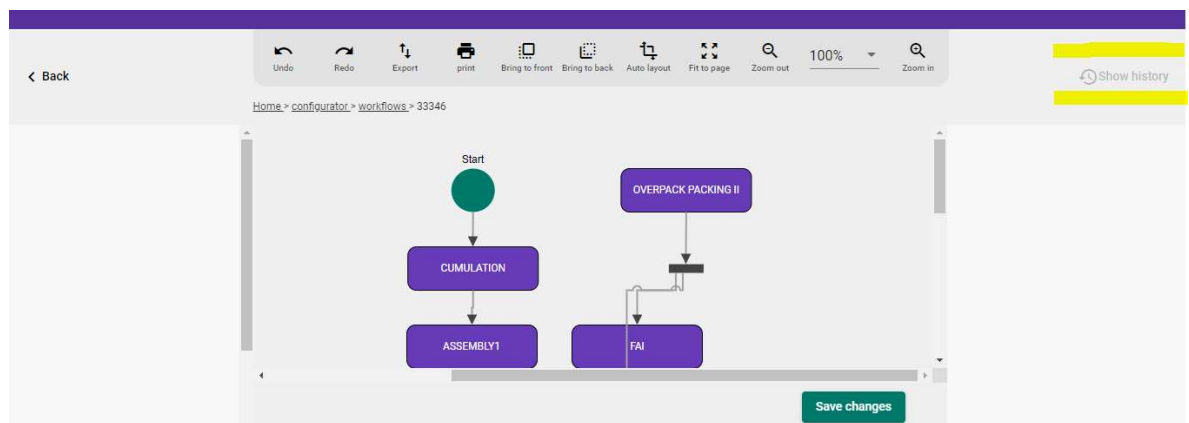




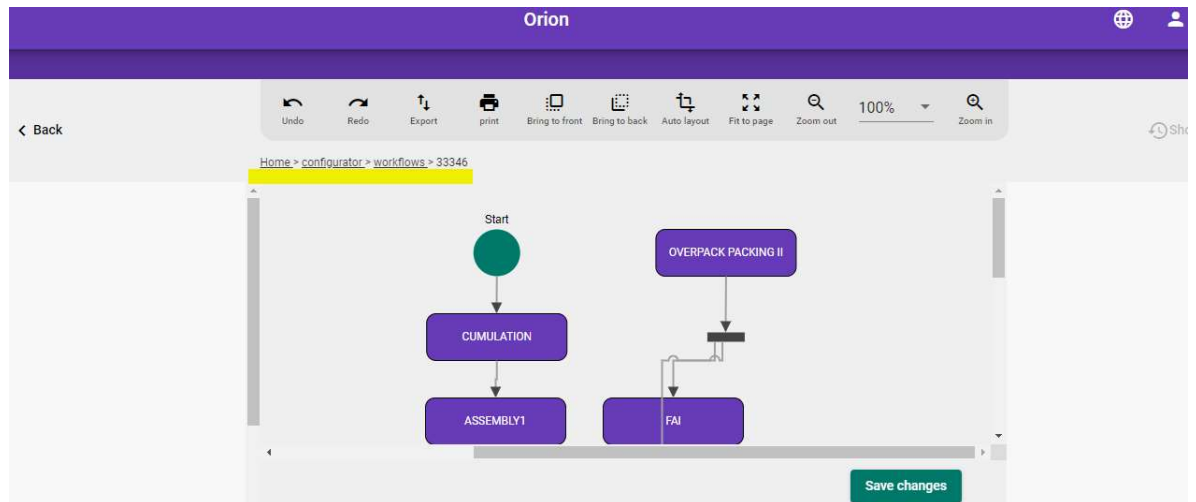
After the user sets the diagram according to user's preferences (places elements as needed), it is necessary to save this overview of the diagram with a diskette icon in control panel (or by pressing CTRL+S on a keyboard). From this time the diagram is looking the same for every user who has access to it.



The history of changes can be found to the right under „Show history“.



Under the control panel was added the bread menu for better orientation for the users. It shows where the user is within the application. By clicking on the individual names in the menu, user moves to that specific part of the application.



## 6 Process detail - Events and Actions

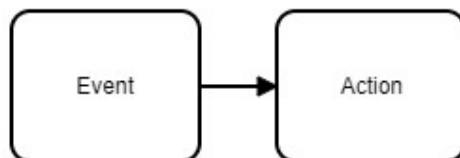
The structure of processes is divided into two sections – events and actions. Both are showed in diagrams as a purple rectangle, but each of them in different level of a process.

Events are stations in production, every computer in production represent one event. Events can be consisted of another events. But the last event ends with one or more actions.

Actions are elementary actions which can be conditioned. Actions are folded in workflow in which order they follow. For example “scan item”, “print label”, ...



OR



**NOTE:** User gets to the lower level of process by clicking on specific event, that displays another diagram (eg. Event or Action).

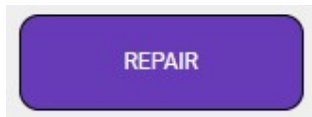
## 7 Process elements

Diagrams are composed of individual elements. Every element has its own purpose. At this moment there are 10 element in total:

**Start element** – starts the diagram, one diagram can have only one start, it is represented by a green round



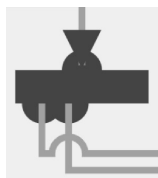
**Event / Action element** - stations in production / elementary actions which can be conditioned, it is represented by a purple rectangle



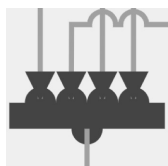
**Decision element** – shows in which direction the diagram continues based on met conditions of a question, the conditions are seen after user doble-clicks on the decision element, it is represented by a blue rhombus



**Fork element** - shows the branching of the process into more ways, it is represented by a black slim rectangle with one input and more outputs



**Join element** - unites different paths of the process, it is represented by a black slim rectangle with more inputs and one output



**Interruption element** - interrupts the process if needed (e.g. after the item is scanned in production, it starts auto checking, then the process is interrupted and the item has to be scanned again in order to finish the process), it is represented by a white round with a flash.



**End element** – ends the diagram, one diagram can have a multiple ends, it is represented by an orange round



**Full arrow** – shows the flow of a diagram



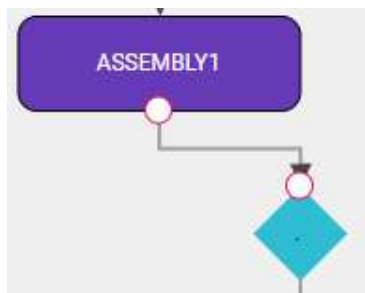
**Interrupted arrow** – disabled action, shows how the flow would go if the action was enabled



**Interrupted thick arrow** - optional connectory means the process is not normally going this way but operator can decide that the unit will take this way by scanning it on the event



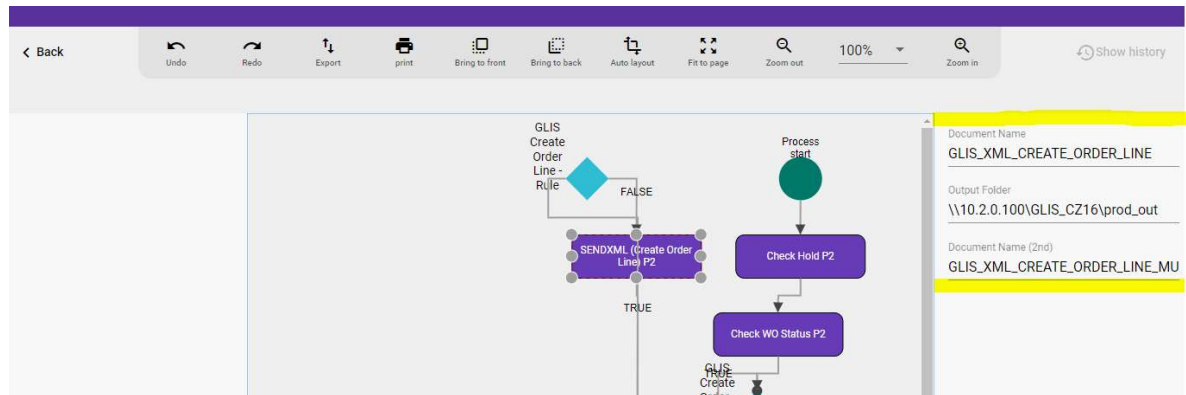
**NOTE:** If a user clicks on a arrow it reveal the way it follows by displaying little red circles attached to its start and end points.



## 8 Element parameters

By clicking on the elements within the action diagram user can display element parameters . Parametres panel is placed to the right in a window. Data for parametres are taken from Shopfloor. For decision element shows conditions for decision making.

**NOTE:** Actions can be even without parameters.





## 9 Planned features for Configurator

The vizualizator will be completed with:

1. Creating new processes and changing existing processes
2. Adding actions and changing parameters
3. History of creating new processes and changing existing processes