

# Soffid BPM Editor

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# Business process definition

## Description

Soffid includes a **BMP (Business Process Management)** in its Smart Engine to provide useful workflows integrated with the processes and the policies of the Soffid core.

In order to add extra functionality to the console, you can upload different business processes (a.k.a. Workflows) that can be found in the Soffid download area and enable or disable existing ones. The existing process definition can be updated by uploading a new version.

“ If a workflow is **disabled**, processes initiated and pending can be finalized, but no longer that workflow could be started.

## Screen overview

**soffid** Search ?

Main Menu > Administration > Configuration > Workflow settings > Business process definition index

Show disabled: ☒ Yes ☐ No

▼ Process	⬆ Version	⬆ Deployed by	⬆ Date	⬆ Change status
Filter	Filter	Filter	Filter	Filter
Account reservation	1	admin	01/3/2024 09:09	<button>Disable</button>
Account reservation approval	2.0.0		24/1/2024 10:08	<button>Disable</button>
Create User	45	pgarcia	18/6/2024 13:14	<button>Disable</button>
DelegateRoles	1	admin	01/3/2024 09:07	<button>Disable</button>
Folder 1 / Update my data-Import	1	pgarcia	18/6/2024 13:21	<button>Disable</button>
Grant account	1	admin	01/3/2024 09:08	<button>Disable</button>
New User	5	pgarcia	10/6/2024 07:59	<button>Disable</button>
Permissions management	2	admin	04/6/2024 10:34	<button>Disable</button>
Permissions Request (N)	6	admin	21/3/2024 11:33	<button>Disable</button>

Displayed rows: 12

Deployment results

# Custom attributes

- **Process:** name of the process.
- **Version:** version of the process.
- **Deployed by:** user who performed the last workflow upload.
- **Date:** date and time of the last workflow upload.
- **Change status:** allows you to change the workflow to enable or disable according to the needs.
- **Deployment results:** will show the log information when you upload a workflow.

## Actions

<b>Show disabled</b>	If you check (option selected is Yes) it will be shown all the workflows, both enable and disable workflows.
<b>Deploy (Add)</b>	<p>Allows you to pick a defined process and upload it for deploying it in Soffid.</p> <p>You must click the button with the add icon (+), click "pick a file" and select a valid file. Then Soffid will upload and deploy the process. This option allows to add new workflows or update existing workflows.</p> <p>You can upload a process defined with the BPM Editor and previously exported (.pardef) or a process defined by code (.par)</p>
<b>Enable</b>	Allows you to enable a workflow. When you enable a workflow, all users with proper permission could launch the process from the Self-service portal
<b>Disable</b>	<p>Allows you to disable a workflow, no user could access that process from the Self-service portal.</p> <p>If there are any processes initiated and pending, those processes may be finalized even if the processes are disabled.</p>

# Configure Workflow engine

## Description

Soffid can use any document repository to store documents generated by workflows, reporting addon, or any other addon.

The document repository can be either a local directory or a remote one accessed using FTP, SMB, HTTP protocols. Depending on the protocol selected, additional parameters may be needed.

Soffid console maintains a textual index that allows searching for currently active or finished processes using full text search.

The textual index for searches can be updated from this page. The textual index is not stored in the database but filesystem. From this page, you can set the directory where this textual index will be stored.

Because it is stored in non-transactional storage, it can get occasionally corrupted. In such a case, by pressing the RebuildIndex button, the index will be rebuilt from scratch.

## Overview

## Document manager settings

Document strategy:

Database ▾

Update

Cancel

Backup

Restore

## Text index settings

Index Directory

/docs/index

Update

If you change the directory indexes will require a re-indexing of all global procedures.

Rebuild index

## Task scheduler:

Status:

Started

Number of threads:

1

Wait interval in seconds:

30

Stop

# BPM Editor

## Description

**BPM is a technology** that allows modeling, implementing, and executing processes automatically to enhance efficiency and productivity in support of enterprise goals.

Soffid includes a BMP (Business Process Management) in its Smart Engine to provide useful workflows integrated with the processes and the policies.

“ The **BPM Editor Addon** allows you to create, configure and publish business processes very easily for the Soffid administrators.

After installation of the addon, you could find BPM editor in the section:

Administration > Configure Soffid > Workflow settings > BPM editor

The BPM Editor addon provides some templates to create new workflows, these templates depend on the process type selected when you are adding a new business process. Nowadays there are the following templates available:

- User management ([User.pardef](#)).
- Permission management ([Permissions+request.pardef](#)).
- Account reservation ([Account+reservation.pardef](#)).
- Permission request.

You can find additional information by visiting [Process types chapter](#).

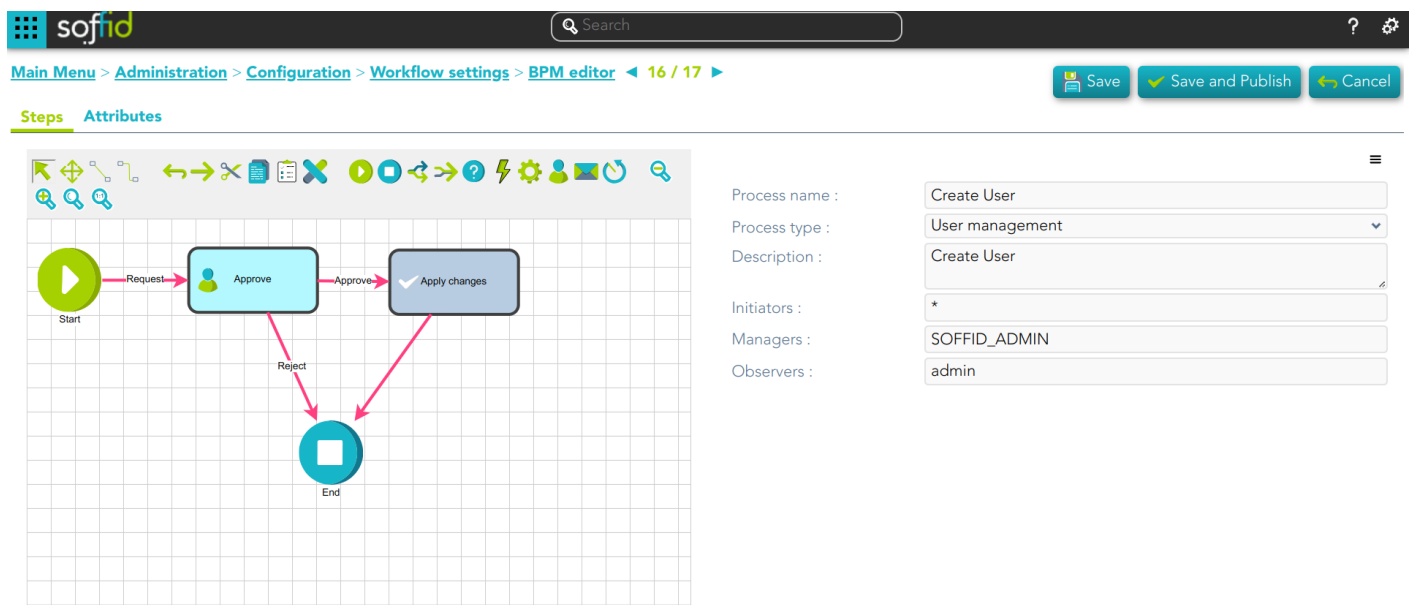
Once a workflow is published with the proper configuration, the users with the correct permissions could start, approve or observe the workflow from the "My Request" option. You can find more información on [My Request page](#)

When a workflow is deleted, that workflow continues to be available to be executed. If you do not want workflow will be executed, you must disable that process on the Business process definition index page. If you disable a workflow, processes initiated and pending can be finalized, but no longer than workflow could be started.

A workflow could be updated with a new version. Processes started with the previous version, will be performed with the previous definition (previous version). And processes start with the new version, which will be performed with the new version.

We will use two concepts to explain that process, identity, and end-user. Identity will be the identity or user that will be created, updated, or deleted in Soffid Console. The **end-user** is referred to an user of Soffid that will request processes using the self-service portal.

# Screen overview



## Custom attributes

## Process editor

That area of the form displays the general information about the business workflow and the main operations to perform. The actions to perform are defined by flowing that link [Process editor actions](#)

- **Process name:** identifier name of the workflow. This name will be used to label the workflow for the end-user. BPM editor allows you to manage the process into folders, you can type the folder name following by "/" .

## Image

Folder 1 / Update my data

Folder X / Process Name 1

Folder X / Process Name 2



Folder 1  
Update my data, User registration (t...



Folder X  
Cambiar puesto trabajo

- **Process type:** allows categorizing the process. There are three different types of processes, each one with its own template.
- - **Use management:** used to create and update identities and their attributes.
  - **Permissions management:** used to create, update and remove permissions and account to identities.
  - **Permissions request:** used to request permissions.
  - **Account reservation:** to use privileges account. In this case, initiators must be -nobody-, that is nobody can start the process directly.
  - **Delegate roles:** used to delegate permissions to other user.
- **Description:** a brief description of the workflow. When an end-user starts a workflow, this text will be displayed in the Actions log tab.
- **Initiators:** here you could configure the roles or the identities that could start a new workflow from the Console and Selfservice. E.g. "admin" identity, "SOFFID\_ADMIN" role, both separated by comma ',' as "admin,SOFFID\_ADMIN" or if you want to publish the workflow to everyone, you can use the text "tothom" or the character '\*' . When you are configuring an Account reservation process, that value must be -nobody-, that is nobody can start the process directly.
- **Managers:** here you could configure the roles or the identities that could perform tasks in the workflow as approve permissions or cancel the workflow.
- **Observers:** here you could configure the roles or the identities that could open the workflows in read-only mode.

## Image



Process name :	New User
Process type :	User management
Description :	New User
Initiators :	*
Managers :	SOFFID_ADMIN
Observers :	admin

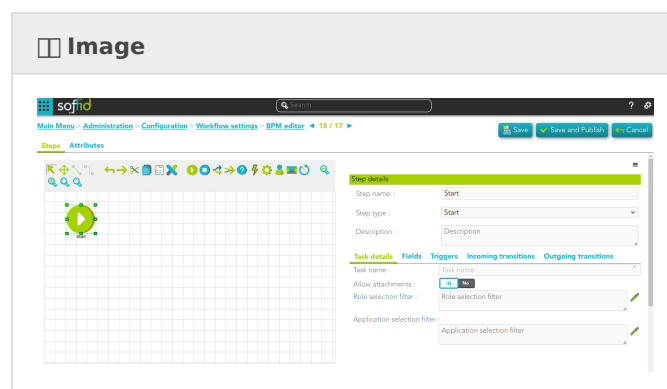
## Steps

There are some available step types to define the properties and behavior of the process. Depending on the selected type, there are common properties to all types and specific properties for each one of them.

The workflows have default steps defined, those steps can be deleted or updated, and other steps can be added. Each step has detail to set up its properties and its behavior. The default steps are below:

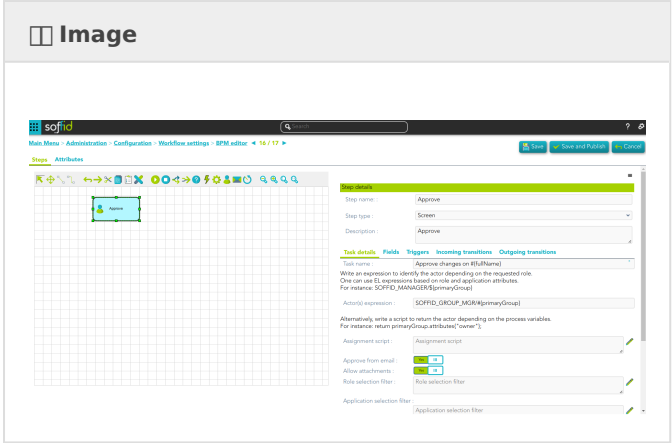
### Start

This step is used to define the beginning of the workflow.



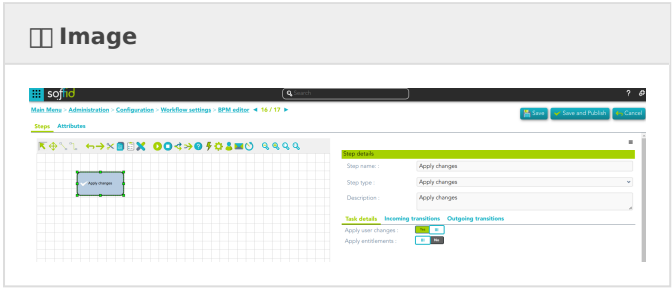
Screen

This step is used to define a form that must be filled in by the end-user.



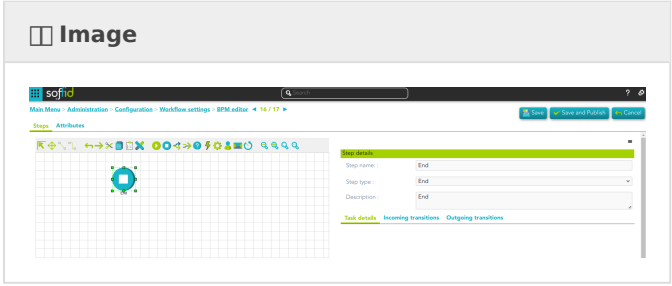
Apply changes

This step is used to show the manager a form with the changes that must be approved.



End

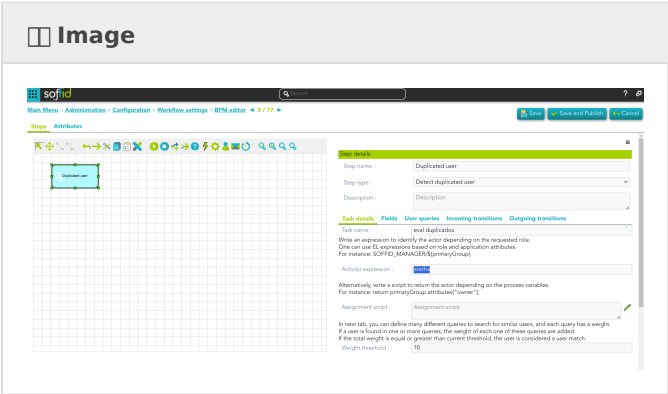
This step is used to define the finish of the workflow.



Other available steps to custom your business process:

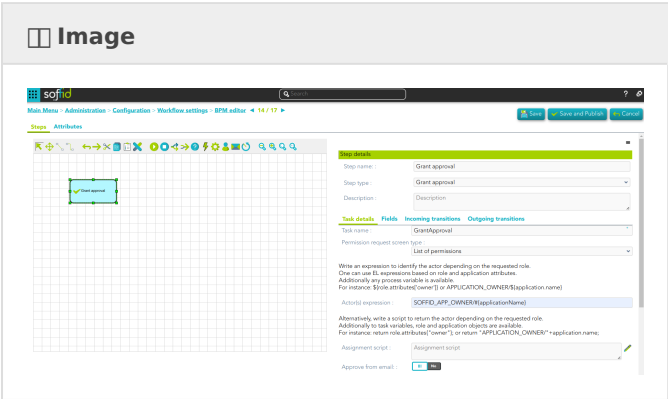
Detect duplicated user

This step is used to detect duplicated users.



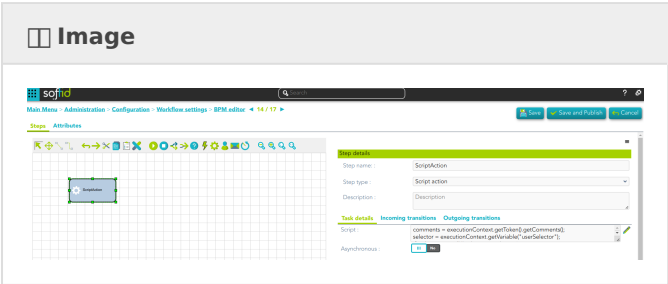
Grant approval

This step is used to show the manager a form with the changes that must be approved.



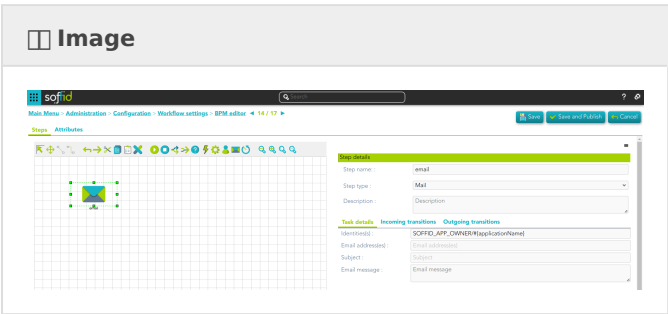
Script action

This step allows you to define a script to be executed at this point. This process can be configured as asynchronous.



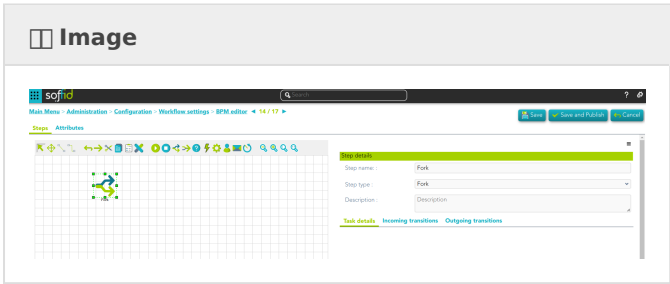
Mail

This step is used to configure sending mail.



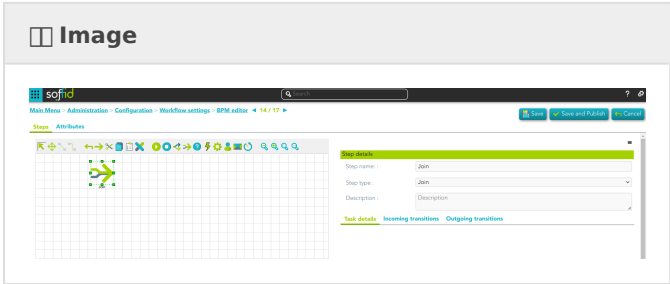
Fork

The process is splitted into two or more paths that are run in parallel, allowing multiple activities to run simultaneously.



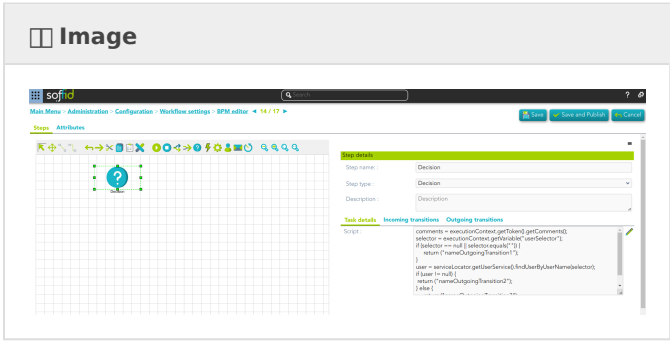
Join

Two or more parallel sequence flow paths are combined into one sequence Flow path.



Decision

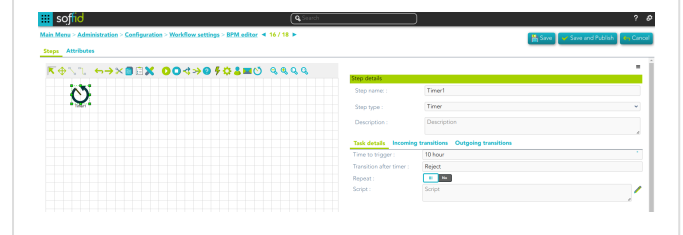
This step allows you to define a script to decide which will be the next step. You must configure the next step by typing the transition name as part of the return command (e.g. return "transitionName").



## Timer

This option can be an independent node or as a part of an existing node. This allows you to determine the time to run the action. For Time to trigger field, the available options are hours, minutes, seconds, days, or a date `# {fecha}`

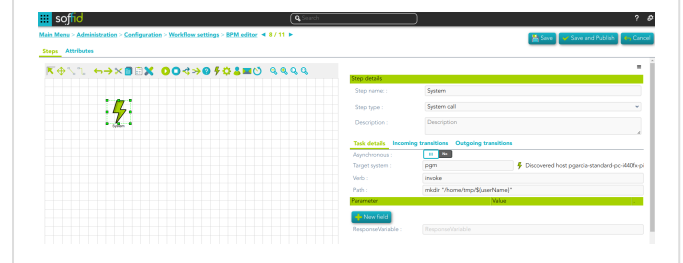
### Image



## System call

This step allows you to set up a call to a specific system. You can find more information about the [Invoker for Shell connector](#) and the [Invoker for Active directory connector](#).

### Image



- **Data type:** data type of the value of the metadata attribute. The data type includes:
  - Basic data types as String or Boolean.
  - Extended data types as Photo or E-mail.
  - Default Soffid objects as User or Group.
  - Your own custom objects are created in Soffid.
- **Multiple values:** (Optional) If this flag is enabled, the metadata may contain more than one value.
- **Size:** (Optional) Set the maximum length of the value.
- **Values:** (Optional) Allows creating a set of values to provide to the user as a list. Use the button with the plus icon (+) to create new values.

Image

Steps

Attributes

Code

action \*

Label

Action

Data type

String

Multiple values

☐

Size

Values

A: Add user

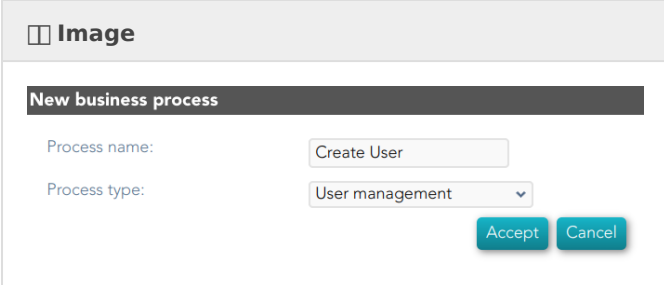
E: Enable user

M: Modify user

D: Disable user

# Actions

## BPM editor actions



<b>Add new</b>	<p>Allows you to add a new workflow to Soffid. You can choose that option on the hamburger menu or click the add button (+). Second, you need to set a name and select the process type and accept. Then Soffid opens the Process editor, which allows you to configure the process. And finally, save the process configuration, or save and publish.</p> <p>If you cancel that operation, Soffil will not save the process definition.</p> 
<b>Import</b>	<p>Allows you to import a workflow from a .pardef file. That functionality is very useful for next scenarios:</p> <ul style="list-style-type: none"> <li>• To restore a workflow from a backup (a workflow previously exported).</li> <li>• To deploy a workflow from one environment to another (for instance from Test to Live).</li> <li>• To start a new workflow from a template.</li> </ul> <p>You can choose that option on the hamburger menu. Then you can pick up a .pardef file, and save the process or save and publish. Soffid will ask you for confirmation, If you confirm, finally, Soffid will import the process definition.</p> <p>If you cancel that operation, Soffil will not upload and save the process definition.</p> <div style="background-color: #f9e79f; padding: 10px; border-left: 3px solid #f1c40f;"> <p>Note that with this option you only can load workflows defined by the BPM editor.</p> </div>
<b>Edit process</b>	<p>Allows you to edit a workflow to update it by clicking the process record.</p> <p>Then you can update the process definition and save, or save and publish the updates.</p>
<b>Remove process</b>	<p>Allows you to delete a workflow. You can choose one or more records and then click the subtraction icon (-).</p> <p>When a process is deleted, that process continues to be available to be executed. If you want that process is not available, you must disable that process on the <a href="#">Business process definition index</a> page</p>

## Process editor actions


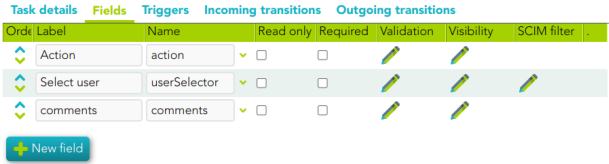
The action that can be performed in the process are detailed below

<b>Save</b>	Allows you to save all changes included in the workflow. That workflow can be a new or an updated workflow.
<b>Save and Publish</b>	Allows you to save the changes performed in the workflow setup and also publish the workflow to be used in Soffid. After this action, the last version of the workflow will be available for the end-user (with the proper permissions) in the Soffid Console and Self-service portal.
<b>Cancel</b>	Allows you to quit the process editor without saving changes. Soffid will ask you for confirmation to exit without saving updates
<b>Export process</b>	Allows you to export a workflow to a .pardef file. You can choose that option, selecting the export icon located close to the process name. Automatically Soffid will download a .pardef file with the process definition.

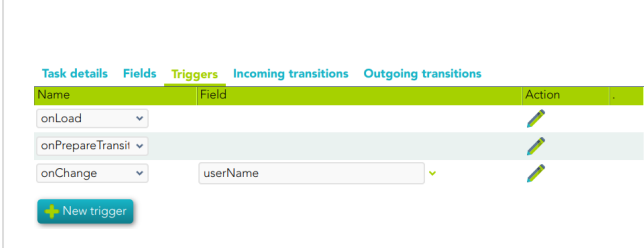
## Steps section actions

<b>Add step</b>	<p>Allows you to add a new step to the workflow by selecting the action from the tool bar. When a new step is added, it will be mandatory to configure it.</p> <div> <div>Image</div>  </div>
<b>Delete step</b>	<p>Allows you to delete an existing step. To delete a step you must click the step and then click the delete icon (X) or the Supr key.</p> <div> <div>Image</div>  </div>

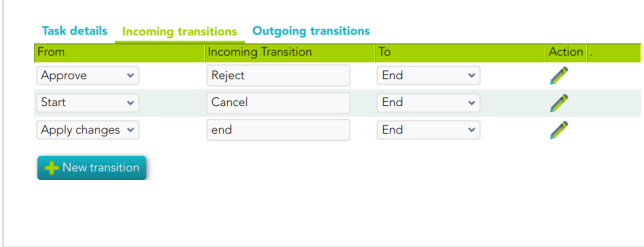
## Fields

<p><b>New field</b></p>	<p>Allows you to add a new field on the Fields tab. You need to click the "New field" button and Soffid will show a new row to fill in. For each new field you may define:</p> <ul style="list-style-type: none"> <li>• <b>Label:</b> allows you to give a name to that field. That label will be shown on the process form to final users.</li> <li>• <b>Name:</b> allows you to select an identity attribute or specific attribute defined for that process. That will be the field type (e.g. selector, input field, date field...)</li> <li>• <b>ReadOnly:</b> allows you to determine if this field could be updated.</li> <li>• <b>Validation:</b> this allows you to add a custom script with validation rules.</li> <li>• <b>Visibility:</b> this allows you to add a custom script to determine the visibility of that field.</li> <li>• <b>SCIM Filter:</b> allows you to define a SCIM filter to get the data (e.g. userType eq "E")</li> </ul> <div data-bbox="813 1093 1485 1382"> <p> <b>Image</b></p>  </div>
<p><b>Delete field</b></p>	<p>Allows you to delete a field. To delete a field you must click on the subtract icon (-) that is at the end of the same line.</p>
<p><b>Validation</b></p>	<p>Allows you to add a new customized script with validation rules</p>
<p><b>Visibility</b></p>	<p>Allows you to add a new customized script to determine the visibility of that field.</p>
<p><b>Order</b></p>	<p>Allows you to sort the fields using drag and drop.</p>

## Triggers

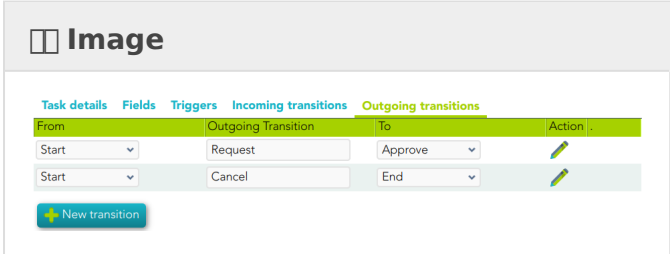
<b>New trigger</b>	<p>Allows you to add a new trigger to perform actions.</p> <div> <div>Image</div>  </div>
<b>Delete trigger</b>	<p>Allows you to delete a trigger. To delete a trigger you must click on the subtract icon (-) that is at the end of the same line.</p>
<b>Action</b>	<p>Allows you to add a new customized script.</p>

## Incoming transition

<b>New transition</b>	<p>Allows you to add a new incoming transition. You need to click the "New transitions" button, then Soffid will show a new row to fill in. For each new incoming transition you may define:</p> <ul style="list-style-type: none"> <li>• From: this allows you to select where the workflow comes from.</li> <li>• Incoming transition: brief name to identify the transition.</li> <li>• To: current step.</li> <li>• Action: allows creating a custom script to perform specific actions.</li> </ul> <div> <div>Image</div>  </div>
<b>Delete transition</b>	<p>Allows you to delete an incoming transition. To delete an incoming transition you must click on the subtract icon (-) that is at the end of the same line.</p>

<b>Action</b>	Allows you to add a new customized script by clicking the pencil icon.
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## Outgoing transition

<b>New transition</b>	<p>Allows you to add a new outgoing transition.</p> 
<b>Delete transition</b>	Allows you to delete an outgoing transition. To delete an outgoing transition you must click on the subtract icon (-) that is at the end of the same line.
<b>Action</b>	Allows you to add a new customized script by clicking the pencil icon.

## Attributes section actions

<b>Add attribute</b>	Allows you to add a new attribute to use to configure the step.
<b>Delete attribute</b>	Allows you to delete an attribute. To delete an attribute you must click on the subtract icon (-) that is at the end of the same line.
<b>Add value</b>	Allows you to add a new value to the attribute.
<b>Delete value</b>	Allows you to delete a value. To delete a value you must click on the subtract icon (-) that is at the end of the same line.