

Workflow

The Workflow is divided into two parts: the *Workflow Library* and the *Workflow Tree*.

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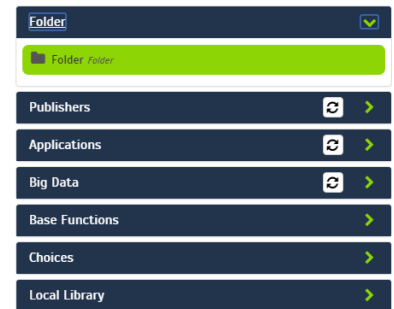
Workflow Library

In the *Workflow Library* you can find applications and rules to create your own business rules, just by dragging and dropping into the *Workflow Tree*; all stored in a collapsible menu divided by categories. In the workflow we can find two types of rules.

- Applications Rules
 - Downloadable java components (*Publishers* , *Applications* and *Big data*)
- Script Rules
 - Predefined templates of Groovy scripts. (Folder, Base Functions, Choices)



The available Publishers, Applications and Big Data may change according to your entitlements



Categories

Folder

The folder is used to group a set of rules into one branch which later can be moved, shared or disabled.

Publishers

With the *Publishers* you can publish the jobs coming from the connector and into a search engine, each publisher must be configured before it's added as an application rule. They are all downloadable Java applications.

Applications

The *Applications* are used to modify the jobs coming from the connector in a more complex way than a simple Groovy script could have done. They are all downloadable Java applications.

Big Data

The *Big Data* category holds all the big data related applications such as Co-occurrence, Hadoop Job Launcher, among others.

Share Libraries

The *Shared Libraries* are sets of rules and applications we save to use with other content sources. If a rule or application is not in a share rule, we can't use it again in another content source.

Base Functions

The *Base Functions* are scripting rules based on Groovy that can do simple functions to the jobs, it also has rules that can skip or stop the process of a job in the workflow. You can also create your own custom rules.

Choices

The *Choices* are scripting rules based on Groovy that allow us to create branches in the workflow based on a decision, these branches are only executed by the jobs that comply with the made decision.

Local Library

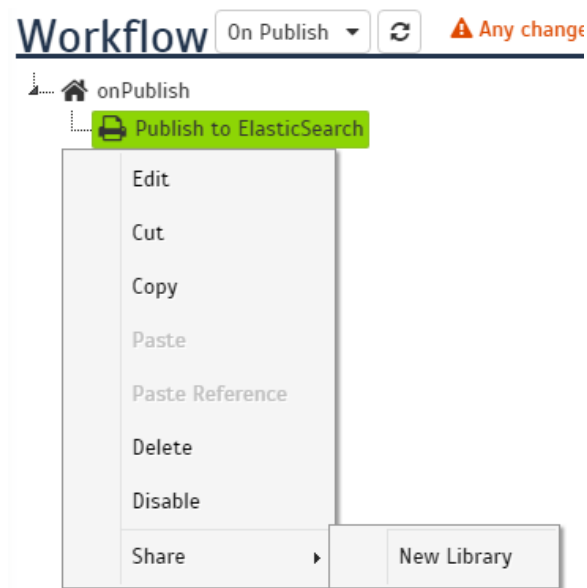
The Local Library category, holds all the rules used in the current workflow, even the shared rules used in the workflow. *Dragging the rules from this category will just create a reference to the existent rule*

How to Share a Rule or Application?

This section walks through the steps necessary to share any rule or application with the enabled menu.

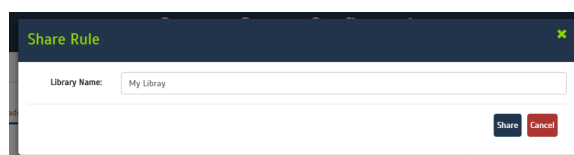
Step 1: Open the Context Menu

1. Right click over the rule or application we want to share, if it can be shared, the *Share* option should be enabled.
2. Put the mouse over the *Share*, this should open the sub menu
3. Click the *New Library* option, this will open a window where we can put the name of the library.



Step 2: Create the Share Library

1. Enter the name of the library
2. Click on the *Share* button, this will create the share library with the rule or application inside of it.



Step 2.1: Check the Share Library

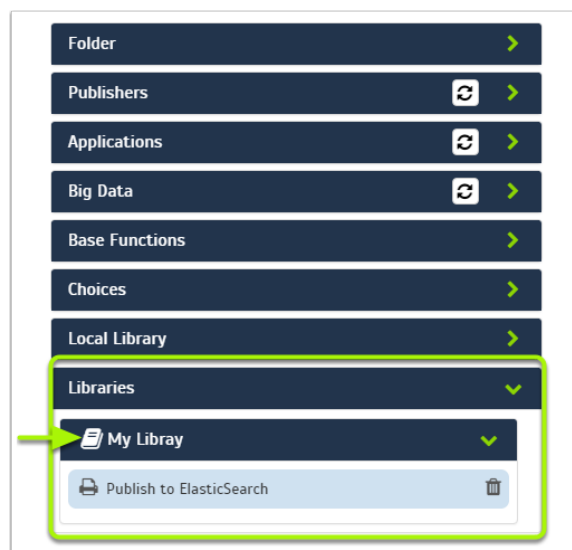
1. Go to the Workflow Library, the new category **Libraries** should be visible by now.
2. Click on Libraries category to show all the shared libraries available, your new library should be visible.
3. Click on your library to show the shared rules in the library.



You can delete a shared rule by clicking on the trashcan next to the name of the rule in the *Workflow Library*

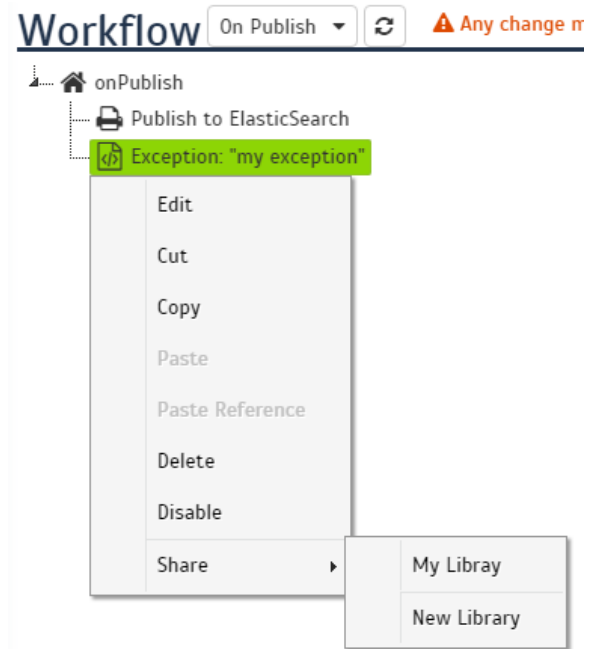


The share library may change position if we have several shared libraries, this is because it is going to be sorted by alphabetical order.



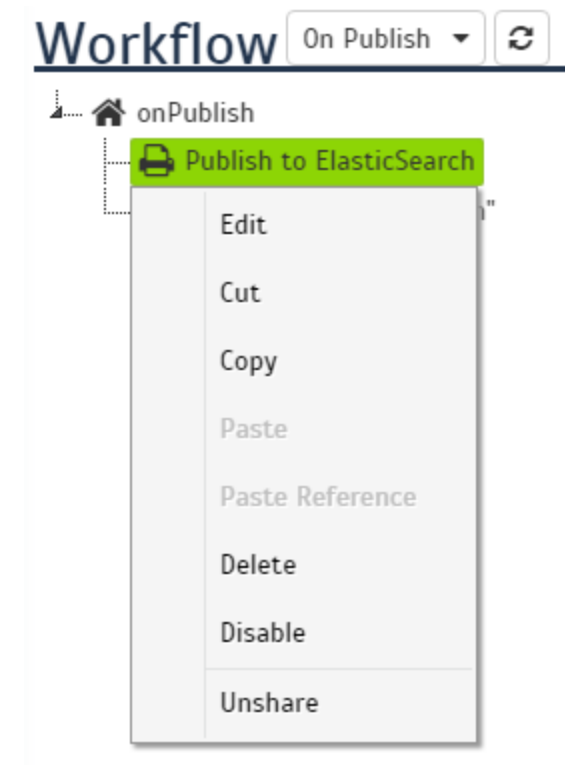
Step 3: Share to a existent Share Library

If you already have a share library and you want to add a new rule or application to it, repeat **Step 1** and instead of clicking over *New Library* we can click over the name of our library, this will add the rule or application automatically.



Step 4: Unshare a Rule or Application

1. Right click over the rule or application we want to unshare, if it is shared, the *Unshare* option should be enabled.
2. Click the *Unshare* option, this will remove the rule from the shared library.



Workflow Trees

The *Workflow Trees* represent specific point in the information flow, they are stages in which the jobs are processed before they are sent to the next one. The root node of each tree is always going to be named as the stage it represents. We have 5 trees for the content source:

[blocked URL](#)

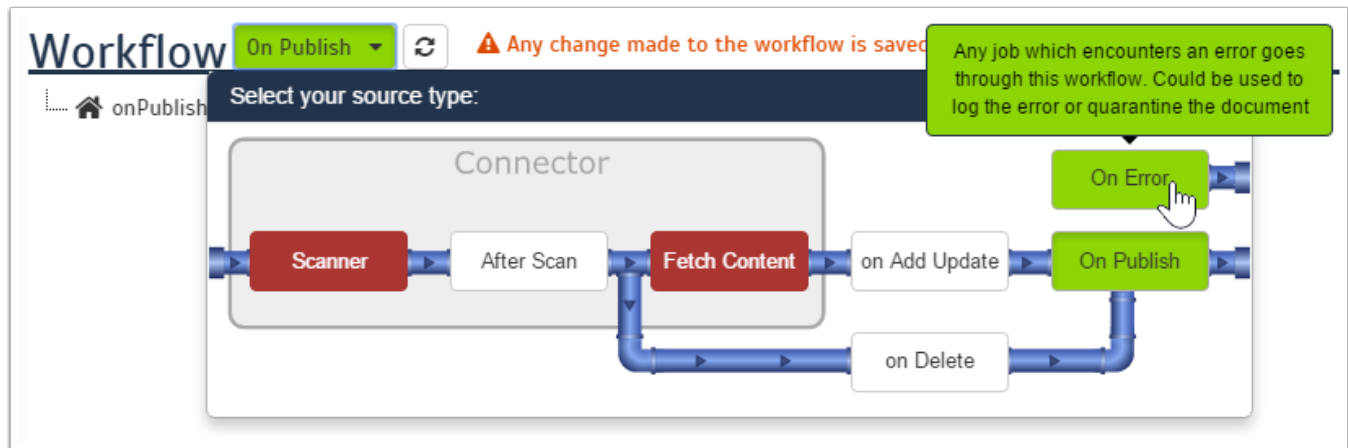
- **After Scan:**
 - Process documents before their content is fetched. Typically used to terminate jobs to avoid fetching unwanted documents.
- **On Add/Update:**
 - Process documents to be added or updated in the index. Typically used to map /normalize metadata fields and values.

- **On Delete:**
 - Delete events go through this workflow. Typically empty, this can be used to update an external repository as well.
- **On Error:**
 - Any job which encounters an error goes through this workflow. Could be used to log the error or quarantine the document.
- **On Publish:**
 - Publish documents to a search engine. Put your publisher in this workflow.

* The workflow trees are saved with every change you made, they are independent from the Save button

Controls

The controls for the *Workflow Tree* are explained in the [Admin UI Content Sources](#). But the most important control for the *Workflow tree* is the *Tree Selection*. With this control we can select the tree we want to modify, and we can see it in a representation of the information flow, also we can see the description of each tree just by putting the mouse over the button. The current tree will be highlighted in green



Rules Hierarchy Restrictions

For some rules there are some restrictions of which rules can contain which one, in the list below we can see which rules can contain which types of rules.

Root

- Folder
- Publishers
- Application
- Big Data
- Base Functions
- Choices (but not the Condition)

Condition

- Folder
- Publishers
- Application
- Big Data
- Base Functions
- Choices (but not the Condition)

Folder

- Folder
- Publishers
- Application
- Big Data
- Base Functions
- Choices (but not the Condition)

Choices

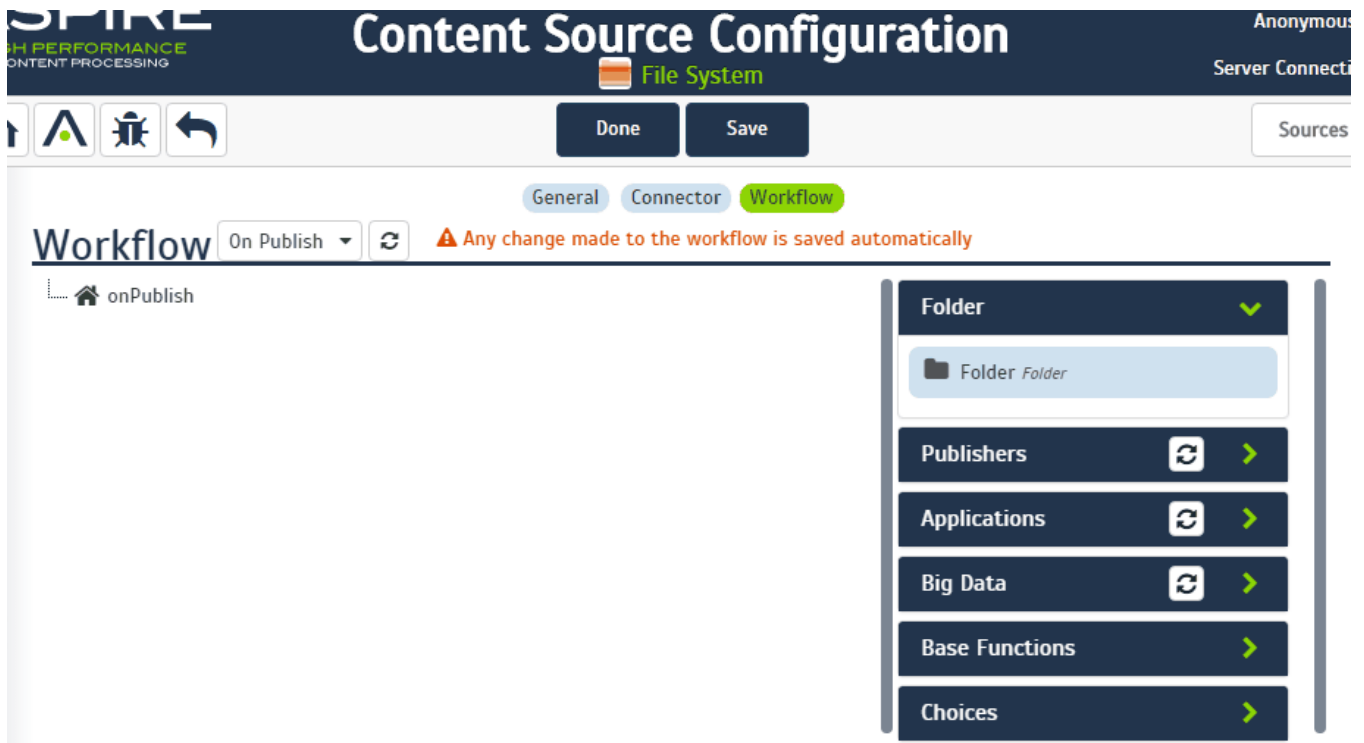
- Condition (Only)

Add a rule or application to the Workflow Tree

This section walks through the steps necessary to add any rule or application to the *Workflow Tree*.

Step 1: Drag from the Library

You can add any rule or application just by dragging the rule from the *Workflow Library* and dropping it in the part of the *Workflow Tree* you want to put the rule or application.



Step 2: Fill the properties

If the rule needs to be configured, it will open a window with all the configuration properties, otherwise it just will appear in the tree. If a window is opened just fill the necessary properties and click on the *Add* button to create the rule.

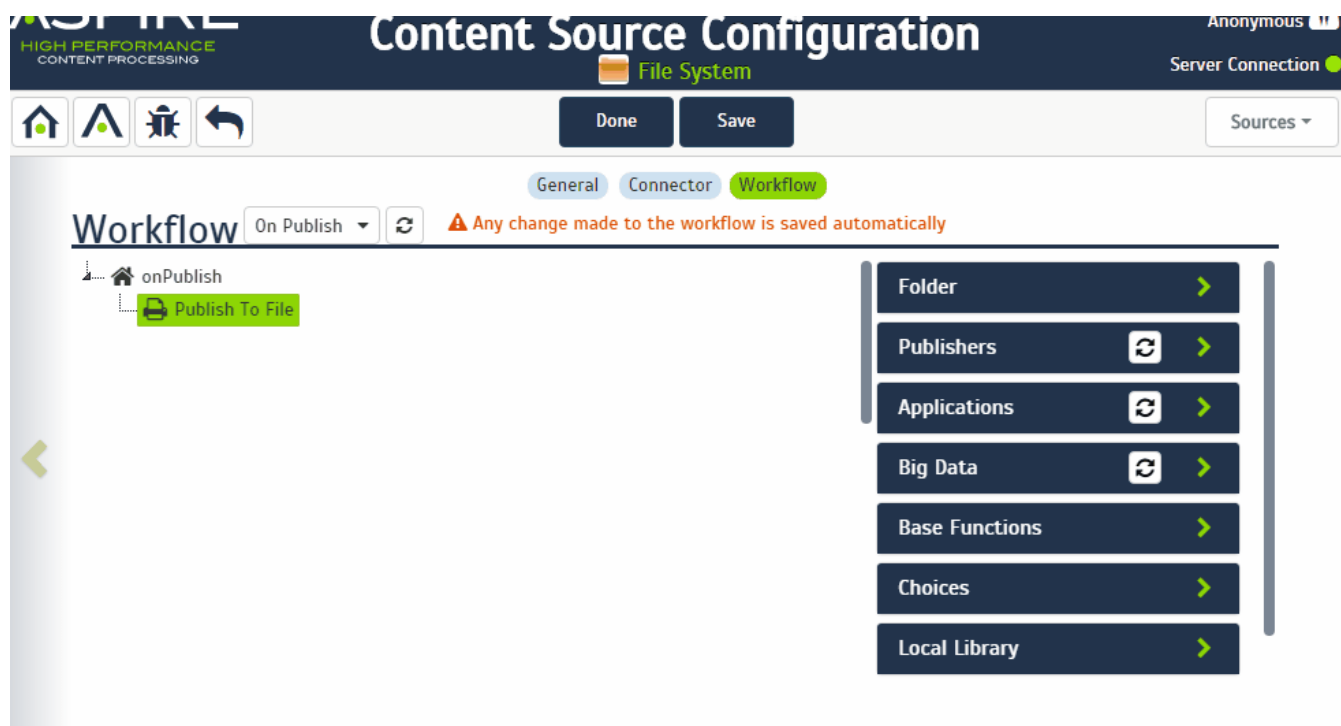
The 'Publish To File' configuration window is shown. It contains the following fields and options:

- Coordinates:** com.searchtechnologies.aspire:app-publish-to-file
- Name:** Publish To File
- Number of logged jobs :** 5
- Log file type:** File name
- File name:** log/S{app.name}/publishToFile.jobs
- Debug:** ☐ Debug

At the bottom right, there are 'Add' and 'Cancel' buttons.

Step 2a: Update the properties

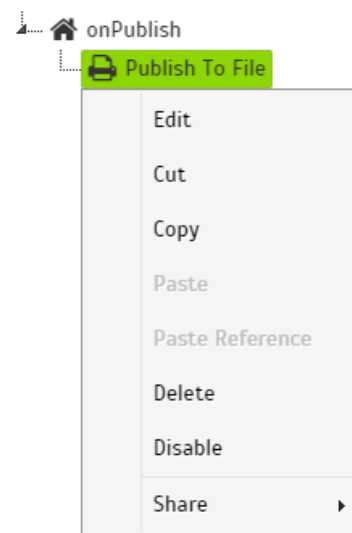
By double clicking the rule on the tree, we can open the window of the current properties of the rule. Then we can change the properties and save them by clicking on the *Update* button.



Context Menu

The *Context Menu* has several options to manage the business rules:

- **Edit:** Is the same functionality as double click, but for cases as a disabled rule where the double click doesn't work, you will need to use this option
- **Cut:** Cut the current rule.
- **Copy:** Copy the current rule.
- **Paste**
 - *Pasting from a Cut:* It will just move the reference, of the rule
 - *Pasting from a Copy:* It will create a **new rule** with the same properties, and add a reference of the new rule
- **Paste Reference:** (*Enabled only after a copy*) Creates a reference to the copied rule, which means that if the rule is updated from one the reference, all the reference pointing to that rule will show the same changes.
- **Delete:** Deletes the reference to the rule
 - If the rule isn't in a *Share Library* or it doesn't have another reference in the same or in another tree, **it will also delete the rule.**
- **Disable/Enable:** Disables or enables the reference,
 - If the reference is disabled it will be gray out
 - If the reference disabled has children, all the branch will be inaccessible
- **Share / Unshare:** (*Share the rule is not shared, Unshare if it is share.*)
 - If it is not shared, opens a sub-menu with the options to share
 - **New Library:** Opens a window where you can specify the name of the new *Share Library*.
 - **Other Libraries:** (*If any*) Displays the name of the existent *Share Libraries* where we can put the rule.
 - If it is shared, removes the rule from the library, creates the rule in the current workflow and redirects the reference to that new rule.



Custom Applications and Custom Script

Custom Applications

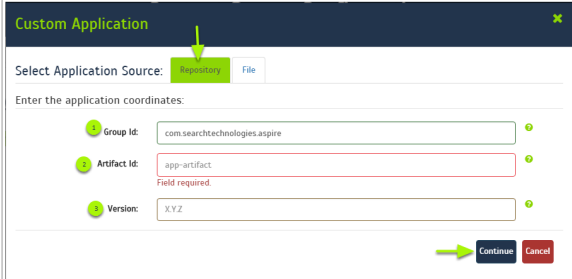
This includes the *Publishers*, for which all related information can be found on [this](#) page, *Applications* that at the moment includes the Hierarchy Extractor and Mime Type Normalizer, and Big Data.

By dragging and dropping the *Custom* option of publishers or applications, you will open a window from which you can choose between two methods to install a custom application, publisher or big data, **repository** and **configuration file**, both shown as tabs on the top of the window.

Repository

The repository method is always the default one, with this option we can download the custom application, publisher or big data from a maven repository. To install the custom application, publisher or big data you need to fill the following fields:

1. **Group Id:** e.g. *com.accenture.aspire*
2. **Artifact Id:** The id of the artifact representing the connector e.g. *app-custom-connector*
3. **Version:** (Optional) If the version of the artifact isn't specify, Aspire will use the same version as it.



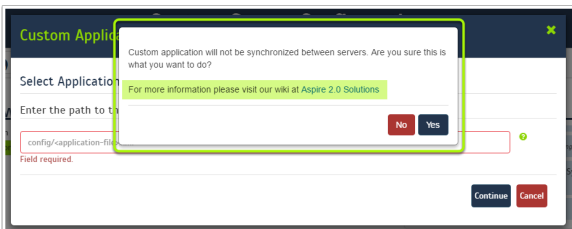
After got all the necessary fields, we click on continue and the application will be loaded in the same window.



- All the *Applications*, *Publishers* and *Big Data* added using this method will be added to their respective category in the Workflow Library.
- It is not recommended to use an older version of anything if a new version is available.

Configuration Files

Before accessing the configuration file method an alert will be show indicating that the application/publisher added using this method are not going to be included in the respective category in the *Workflow Library*.



The configuration files method requires to have both application file and dxf file (in this format `<application>-dxf.xml`) in the same folder on the server machine. To install the custom application, publisher or big data you need to fill the following fields:

1. **File Path:** Enter the path to the application.xml file. It can be a full path to the file or a relative path from the aspire instance folder (e.g. config/application.xml)

After you have all of the necessary fields, click on continue and the application will be loaded in the same window.

If the dxf file doesn't have the new valid format for *application*, *publisher* or *big data*, it won't be possible to open the configuration.

Custom Script

By dragging and dropping the *Custom* option of *Base Functions*, you will open a window where we can add you own groovy script to manipulate the jobs.

To add the custom script you need to fill the following fields:

1. **Name:** Add your script's name
2. **Groovy Script:** Enter your script

Groovy Script with Eclipse Theme

Groovy Script with Twilight Theme



- You can go into full screen by selecting the textarea, and pressing the **F11** or the **Esc** key (*only Esc key works on Mac OS X*)
- You can change the textarea theme from the **Theme** pulldown