

# Workflow Configuration

## 0.1 Overview document

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## 1. Workflow Schemas

The workflow schema definition files of a publication are located at

```
{publication}/config/workflow/
```

A workflow schema definition looks as follows:

```
<workflow xmlns="http://apache.org/cocoon/lenya/workflow/1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://apache.org/cocoon/lenya/workflow/1.0
    ../../../../resources/entities/workflow/workflow.xsd">

  <state id="authoring" initial="true"/>
  <state id="live"/>
  <state id="trash"/>
  <state id="archive"/>

  <variable name="is_live" value="false"/>

  <transition source="authoring" destination="authoring">
    <event id="edit"/>
    <condition class="org.apache.lenya.cms.workflow.RoleCondition">
      edit, review, organize
    </condition>
  </transition>

  <transition source="authoring" destination="authoring">
    <event id="deactivate"/>
    <condition class="org.apache.lenya.workflow.impl.BooleanVariableCondition">
      is_live = true
    </condition>
    <condition class="org.apache.lenya.cms.workflow.RoleCondition">
      review, organize
    </condition>
    <assign variable="is_live" value="false"/>
  </transition>

  ...
</workflow>
```

```
</workflow>
```

The workflow namespace URI is

```
http://apache.org/cocoon/lenya/workflow/1.0
```

## 2. States

All states that are used in the workflow schema have to be declared using `<state>` elements. The initial state is marked with the `initial="true"` attribute.

## 3. Variables

All used variables have to be declared using `<variable>` elements. The initial value of the variable is assigned using the `value` attribute.

## 4. Transitions

A transition is declared using the `<transition>` element. The required attributes `source` and `destination` denote the states that are connected by this transition.

The transition element must contain one `<event>` element with an `id` attribute. Furthermore, it can contain an arbitrary number of `<condition>` and `<assign>` elements.

A transition element can have a `synchronized="true"` attribute. In this case, if the transition is triggered using a *SynchronizedWorkflowInstance*, it is invoked on all instances.

## 5. Variable Assignments

A variable assignment has the form

```
<assign variable="..." value="..." />
```

The variable must have been declared in this workflow schema. Because only boolean variables are supported, value must be either `true` or `false`.

## 6. Conditions

A condition has the form

```
<condition class="...">...</condition>
```

The `class` attribute contains the complete name (including the package) of the condition class. You can use the condition classes that ship with Lenya (see below) or implement your

## Workflow Configuration

own conditions. All condition classes must implement the `org.apache.lenya.workflow.Condition` interface. The text inside the element is the expression that should be evaluated. It is passed as an argument to the `setExpression()` method.

### 6.1. BooleanVariableCondition

The `org.apache.lenya.workflow.impl.BooleanVariableCondition` requires an expression of the form

```
{variable-name} = {value}
```

`{variable-name}` is the name of a variable that was declared in the workflow schema. `{value}` is either `true` or `false`.

### 6.2. RoleCondition

The `org.apache.lenya.cms.workflow.RoleCondition` requires a comma-separated list of role IDs:

```
{role-id-1}, {role-id-2}, ...
```

The condition is complied when the current identity has one of these roles on the requested URL.

## 7. Assigning Workflow Schemas to Document Types

A workflow schema can be assigned to a document type in

```
{publication}/config/doctypes/doctypes.xconf
<doctypes>
  <doc type="content-page">
    ...
    <workflow src="workflow.xml"/>
  </doc>
  ...
</doctypes>
```