Manage Workflows

Agenda:

- Adobe Experience Manager (AEM) workflows
- Process to create, edit, start, and execute workflows

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Workflow terminology, console, models, and steps

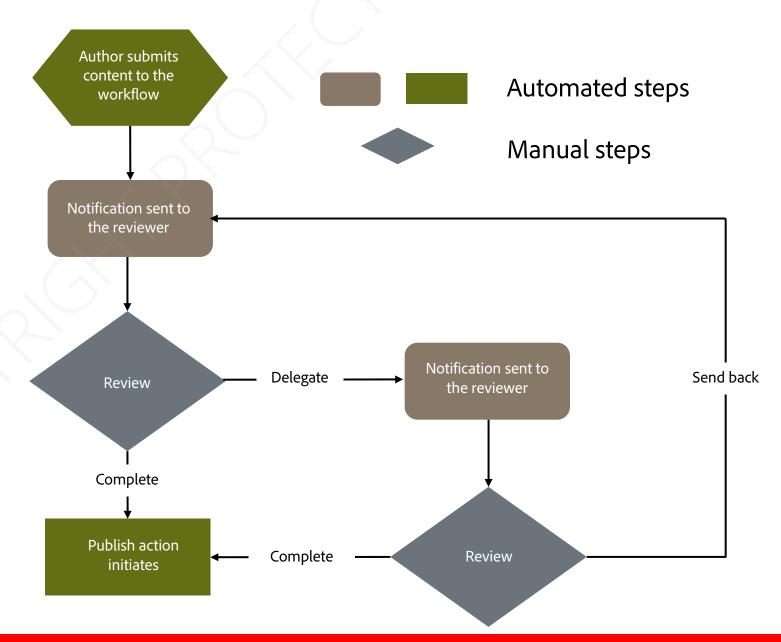
Workflows

- Formalize and support content management processes
- Consist of sequential steps
- Increase efficiency through:
 - Automation of steps
 - Coordination of steps and resources



Steps in workflows

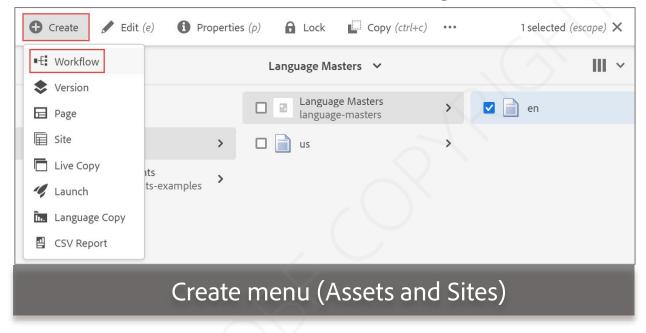
- A workflow is a sequence of steps.
- Automated steps:
 - 1. AEM performs the step automatically.
 - 2. Trigger the next step of the workflow to be started.
- Manual steps:
 - 1. User or group is notified of the newly assigned steps.
 - 2. Require a user to take an action.

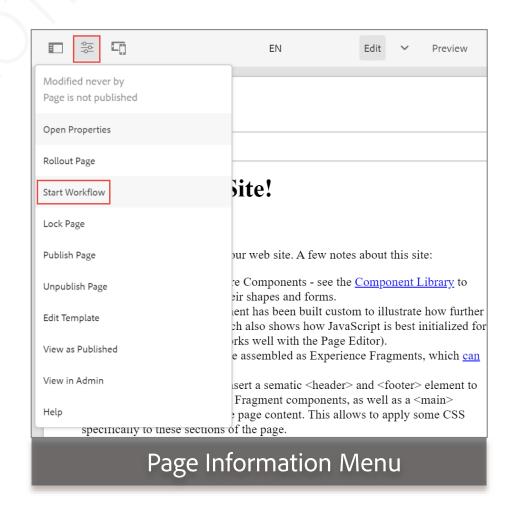


Start a workflow for content

Authors, Librarians, and general users can start workflows

Must be apart of workflow-users group



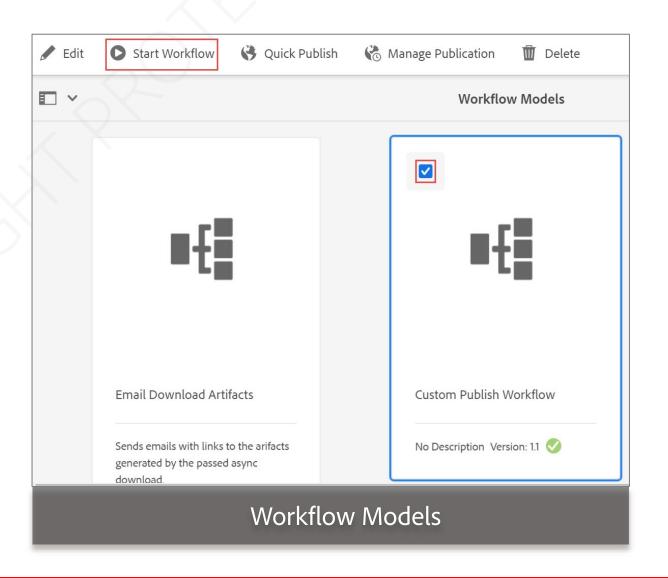


Start a workflow for platform activities

Is useful for:

- Manual execution of activities
- Content cleanup
- Adhoc workflow steps
- General background processes

Not recommended for normal authoring workflow activities



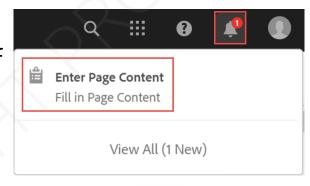
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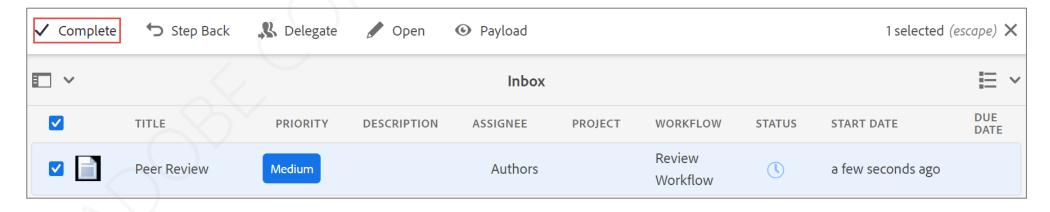
Notification Inbox

View all steps, workitems, and notifications:

- Assigned to the current user
- Assigned to groups the user is a member of



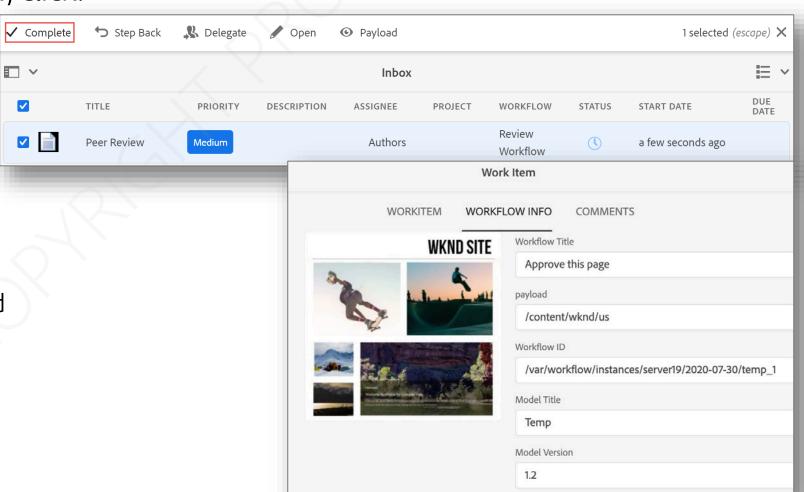




Actions on an Inbox item

To learn about the workflow, click:

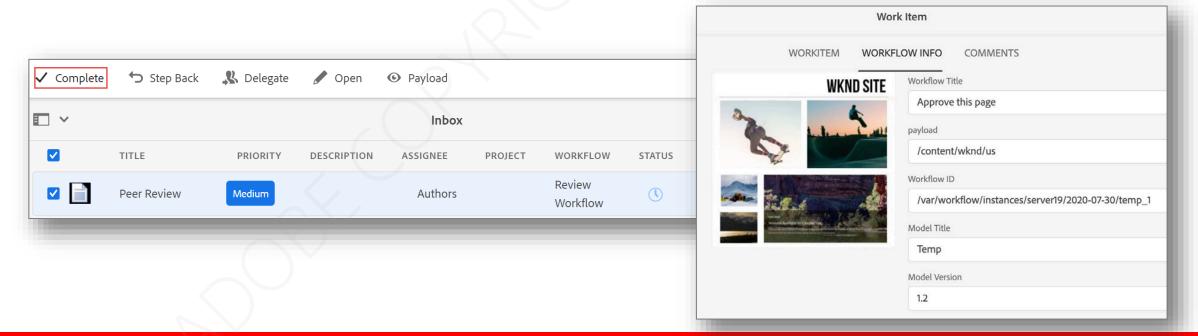
- Open displays:
 - o Workitem info
 - o Workflow info
 - o Comments on workflow
- Payload:
 - o Reveals the content attached



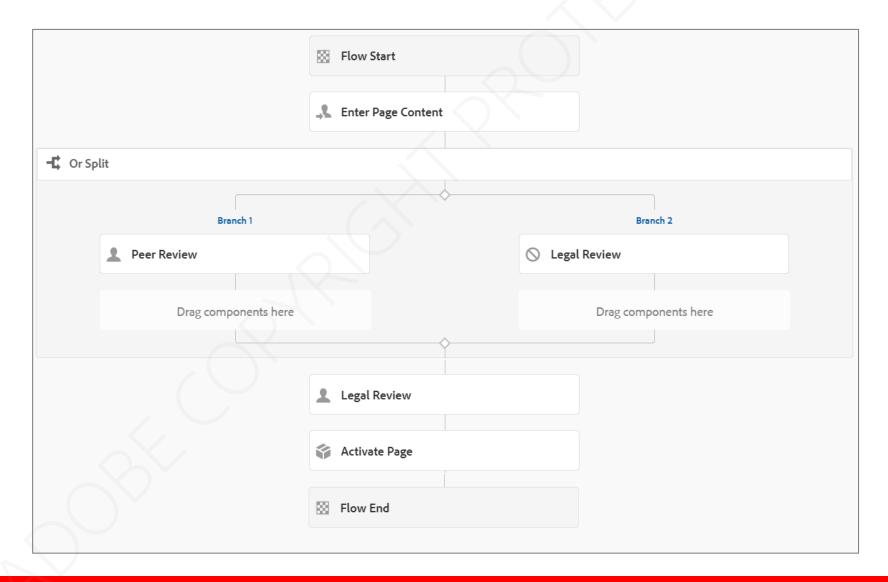
Actions on an Inbox item

To continue the workflow, click:

- Complete Marks the item as completed
- Step back Sends back to the previous participant
- Delegate Assigns the item to another user or group



Sample workflow



Workflow terminology

Models

Structure of steps configured

Steps

Building blocks for manual or automated actions

Payload

Content attached to the workflow

Inbox

Displays the workitems and steps assigned to a user

Workitem

Generic step assigned to a user

Task

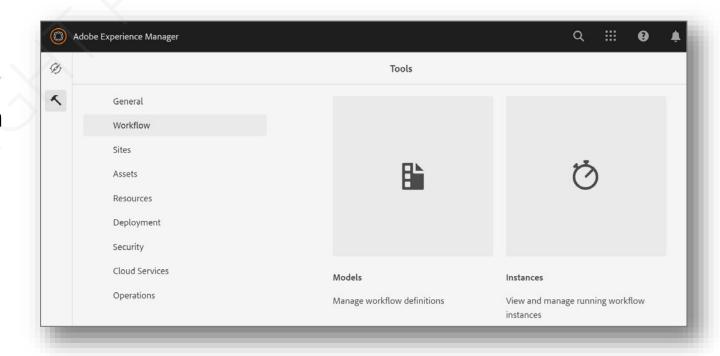
Special step specific for AEM Projects assigned to a user

Instance

An actively running workflow model

Managing workflows | Workflow console

- Tools > Workflow
- Administer the workflow capability:
 - Define and implement how a workflow works as a workflow model by using an editor
 - Monitor and manage the current and past workflow instances
 - Define triggers to start a workflow automatically



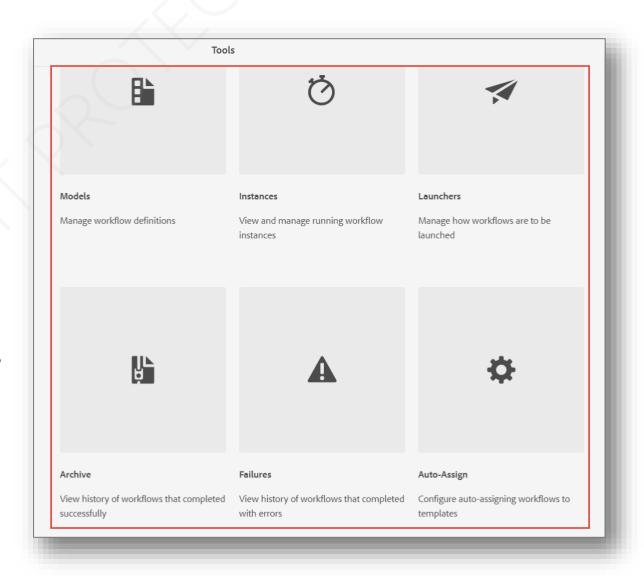
Workflow tools

Process modeling

- Models: Create and edit workflow models
- Launchers: Start workflows automatically
 - o Define triggers to start a workflow instance

Process monitoring

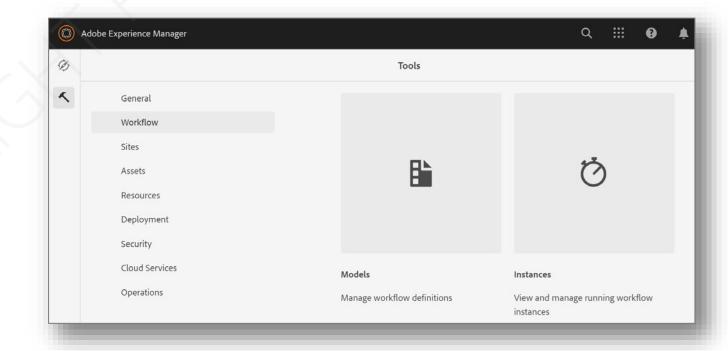
- Instances: View instances of running processes
- Archive: View finished workflow instances
- Failures: View failed workflow instances



Permissions

AEM permission groups for workflows

- workflow-users
 - Can start workflows and participate
- workflow-editors
 - Create/Update workflow models
- workflow-administrators
 - o Full control over all workflow consoles



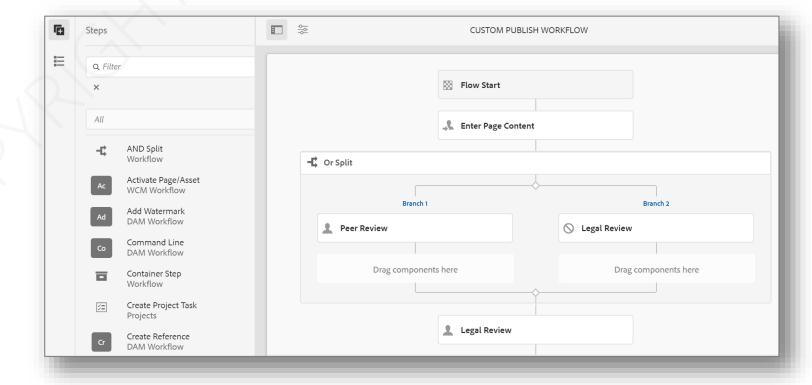
Workflow Models

Tools > Workflow > Models

• Create or edit workflow models

Workflow Editor

- What You See Is What You Get (WYSIWYG) editor
- Syncs with runtime
- Out-of-the-box (OOTB) workflow steps
- Workflow variables
- Workflow stages

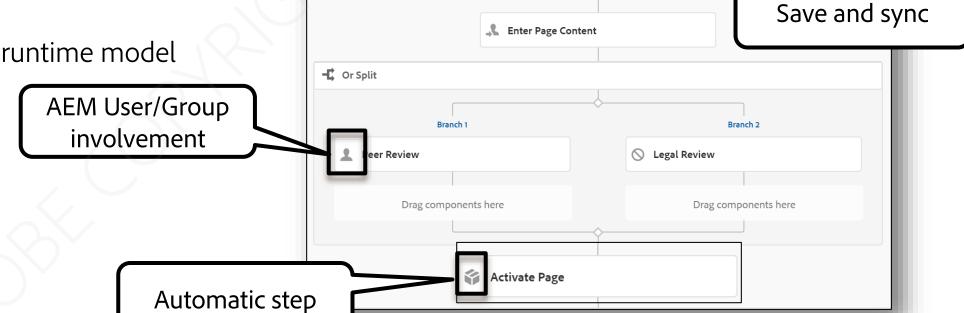


Workflow model editor

- Defines the order and function of every step in the process
- Configure workflow model



- User steps
- Decision steps
- Synchronize with runtime model



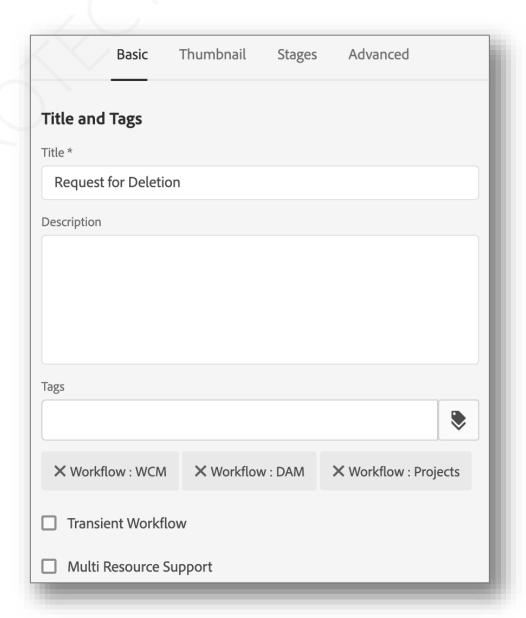
Flow Start

CUSTOM PUBLISH WORKFLOW

Workflow model properties

Basic

- Metadata
- Console tags to limit use
 - o WCM = AEM Sites
 - \circ DAM = AEM Assets
 - o Projects = AEM Projects
- Transient Workflow
 - o No archive or history is stored
- Multi-resource Support
 - 1 to many assets or pages can be attached (typically only 1)
- Thumbnail optional visual for workflow



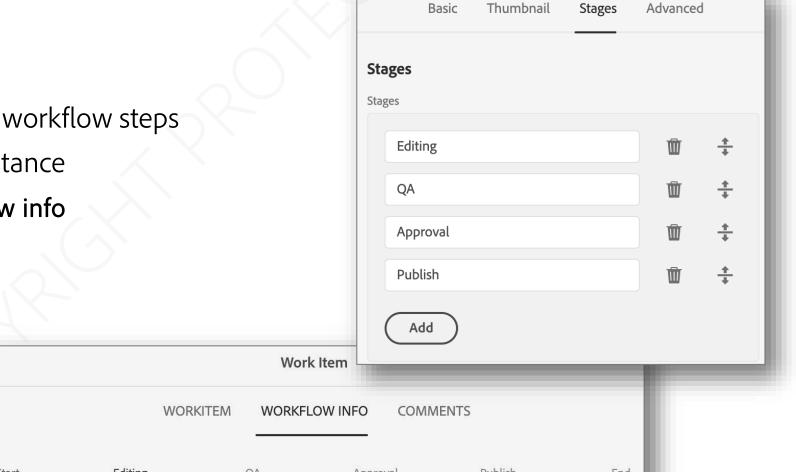
Workflow model properties

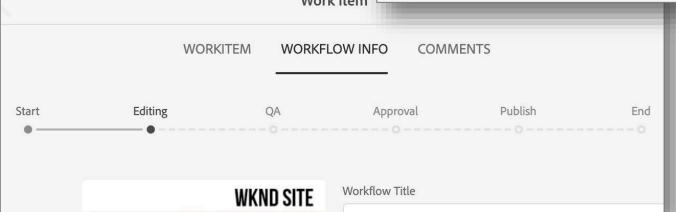
Stages

- Can be attached to one or many workflow steps
- View current stage in running instance
 - o Inbox > Item > Open > Workflow info

Advanced

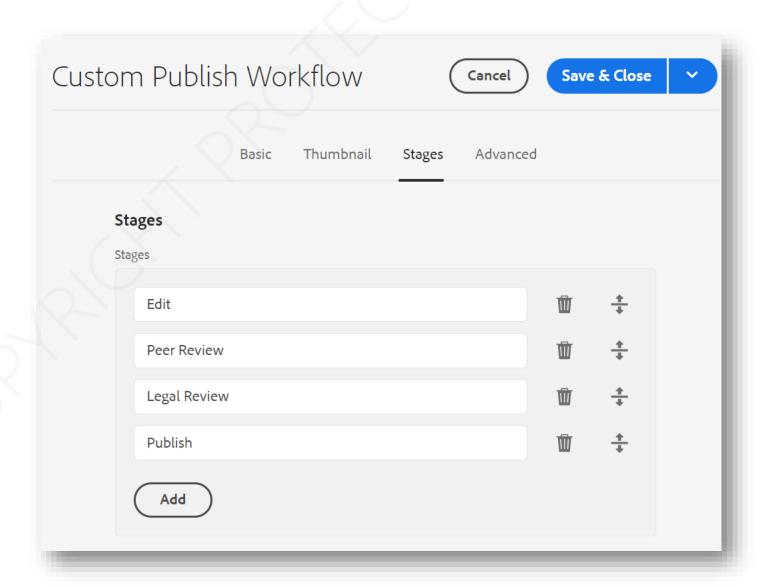
Change styling of dialogs





Workflow stages

- Help visualize the progress of a workflow when handling steps
- Are used to provide an overview of how far the workflow is through processing
- Can be configured and appropriate steps can be assigned to each stage in the workflow



Workflow steps

- Participant step:
 - o Enables you to assign a step to a user or a group of users
 - Notifies participants of their required action through email
 - o Helps configure timeouts and timeout handlers for this step

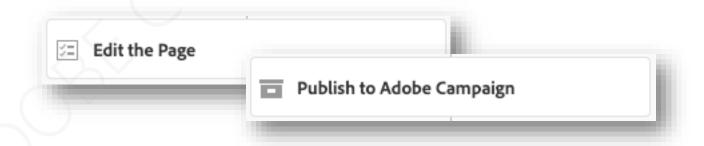


- Process step:
 - Executes JavaScript or calls an OSGi service (Java) to automate the process



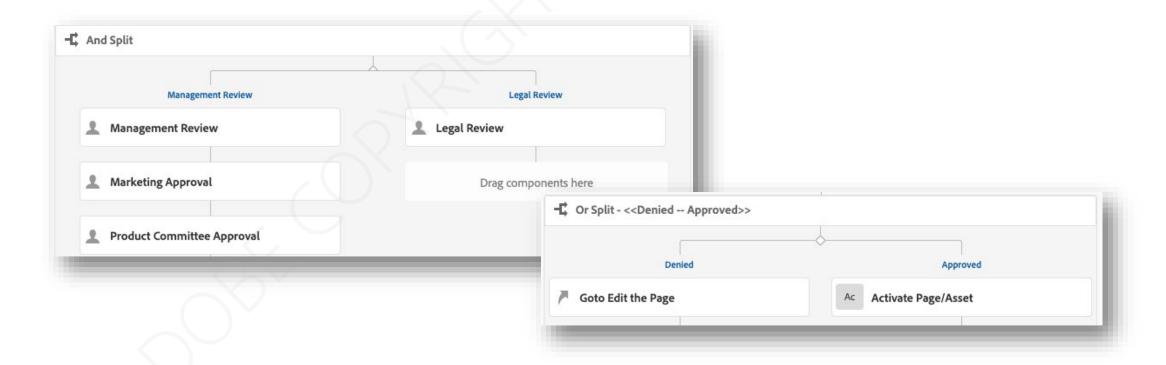
Workflow steps

- Task step:
 - o Is an enhanced participant step that works well for Project workflows
 - Can also execute JavaScripts
 - Can set priority, due dates, and decision options
- Container step:
 - Starts another workflow that executes as a child workflow
 - o Allows reuse of workflow models to implement common sequences of steps



Workflow steps

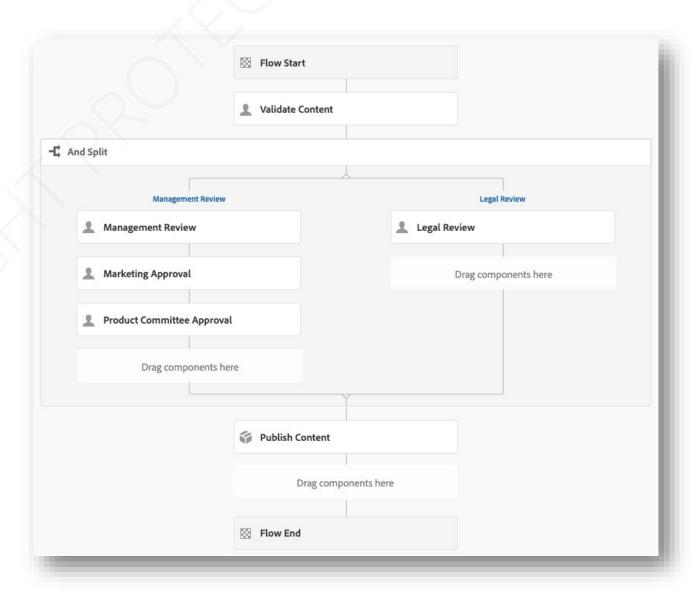
- Splits
 - o Create multiple processing paths in the flow
 - o Processing flow can be controlled by routing expressions



AND Split

Splits the processing path

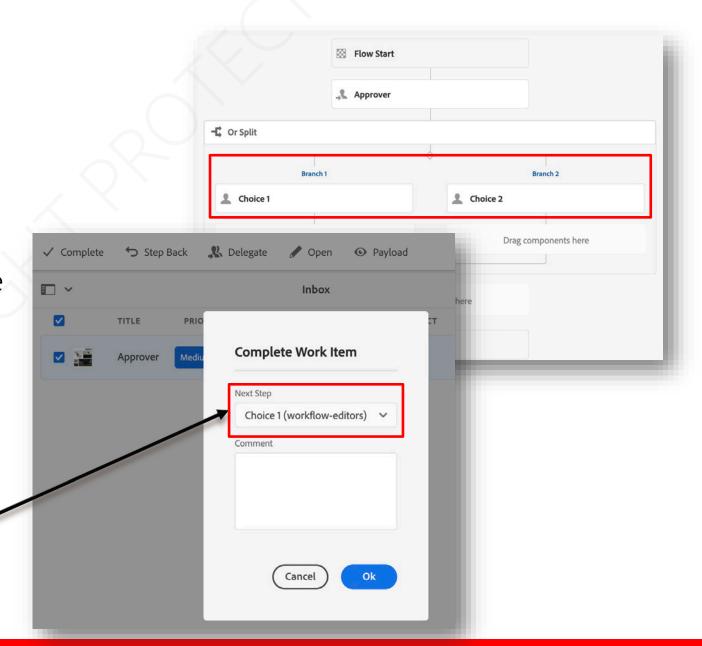
- Two or many branches
- All branches must complete to move the process forward
- Branches are all active at the same time



OR Split

Splits the processing path

- Two or many branches
- Exactly one branch activates
- Active branch must complete to move the process forward
- Active branch controlled by:
 - Rule definitions (workflow variables)
 - o JavaScript
 - User decision in workflow inbox

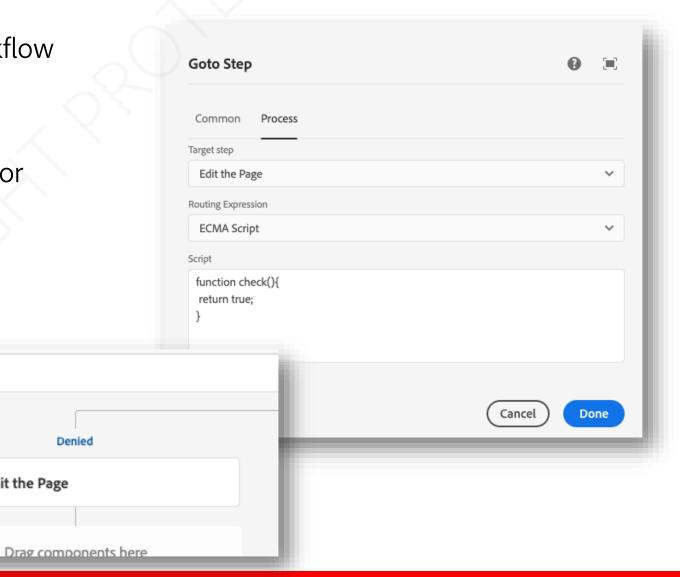


Goto step

- Specify the next step to execute in the workflow model
- Define advanced routing structures in your workflow models based on rule definitions or scripts

Or Split - << Denied -- Approved>>

Useful to implement loops



Goto Edit the Page

Denied

Import workflows into the Maven project

• Update **ui.content** > **src/main/content/META-INF/vault** > **filter.xml** with the workflow as needed:

```
✓ □ > conf [sling:Folder]

<?xml version="1.0" encoding="UTF-8"?>

▼ ♠ > global [sling:Folder]
<workspaceFilter version="1.0">

✓ ♠ > settings [sling:Folder]
    <filter root="/conf/training" mode="merge"/>
                                                                                                             <filter root="/content/training" mode="merge"/>
   <filter root="/content/dam/training" mode="merge"/>
                                                                                                               rep:policy [rep:ACL]
   <filter root="/content/experience-fragments/training" mode="merge"/>
                                                                                                               > 🔄 > launcher [nt:folder]
   <filter root="/conf/global/settings/workflow" mode="merge"/>

▼ ♠ > models [sling:Folder]

    <filter root="/var/workflow/models/custom-publish-workflow" mode="merge"/>
                                                                                                                 rep:policy [rep:ACL]
</workspaceFilter>

✓ ☑ > custom-publish-workflow [cq:Page]

▼ $\square$ jcr:content [cq:PageContent]

▼ S flow [nt:unstructured]

                                                                                                                       initiatorparticipant [nt:unstructured]
                                                                                                                        or [nt:unstructured]
                                                                                                                       participant [nt:unstructured]
                                                                                                                       process [nt:unstructured]
```

Right-click the ui.content > src/main/content/jcr_root and select Import from server

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- Workflows automate and coordinate content management processes.
- You can administer the workflow capability from the Workflow console.
- You can access the Workflow console from Tools.
- Participant and Process are the two commonly used steps in a workflow.