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hybris Developer Training Part I - Core Platform

Workflows

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Overview

Data Model

Working with workflows

Automated steps

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Overview

- The hybris **workflow** extension enables modelling and processing workflows which are usually **backoffice** related user interaction
- A workflow can represent:
  - Complex processes with multiple tasks and users
    - Creating a new product in the catalog
    - Handling customer complaints
    - Quote negotiation (B2B)
  - Single and easy tasks which can be assigned to a backoffice user
    - Changing the image of a product

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Workflow Module – Key features

- Design human- and system-based workflows
- Start a workflow via hybris CronJobs
- Allocate users and user groups to certain tasks
- Comment on the task
- Add task-relevant attachments
- Get real-time notification via e-mail
- Track a workflow
- Cockpit & Process Engine Integration

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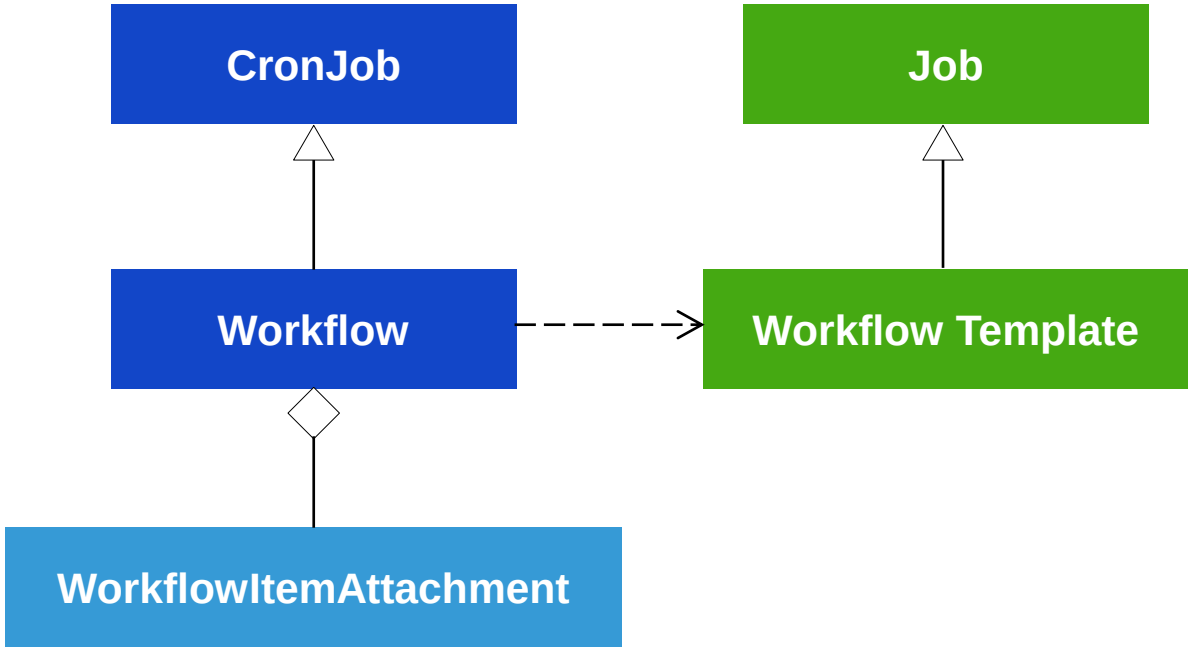
Workflow



- Technically workflows are CronJobs
- Generated out of a workflow template
- Might have attached items

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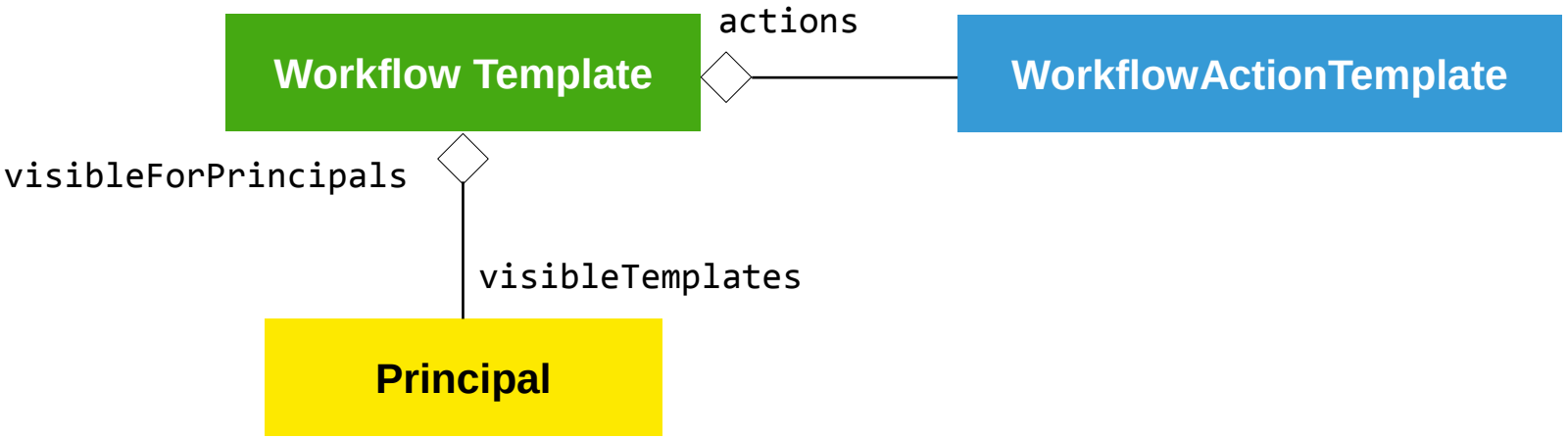
WorkflowTemplate



- Template for a real workflow
- Defines workflow structure through WorkflowActionTemplates

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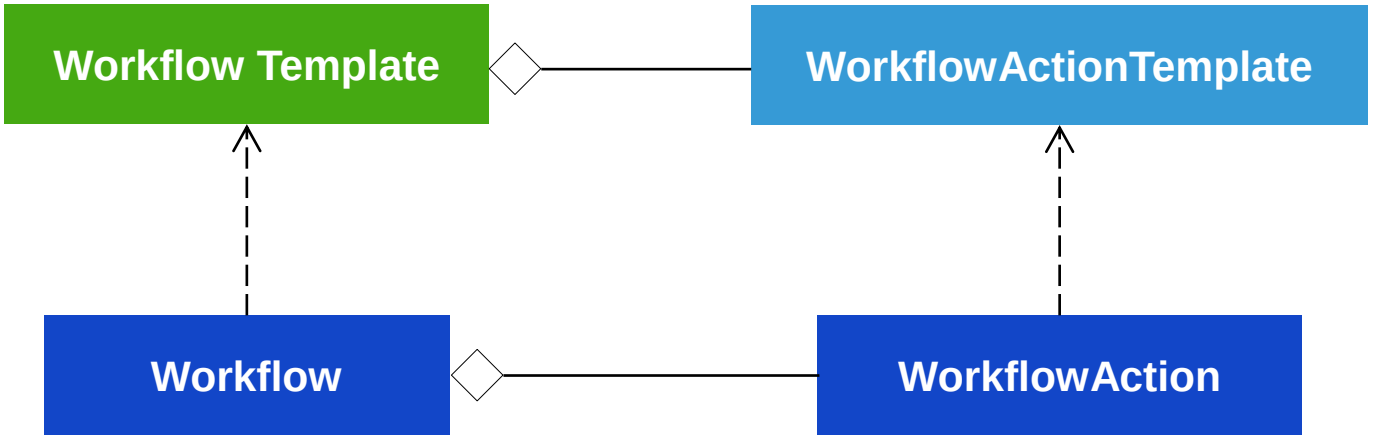
WorkflowAction



- Concrete task the assigned principal has to do
  - Principals should work on the task and
  - Finish the action by choosing a decision
- Gets activated through incoming decisions (AND, OR)

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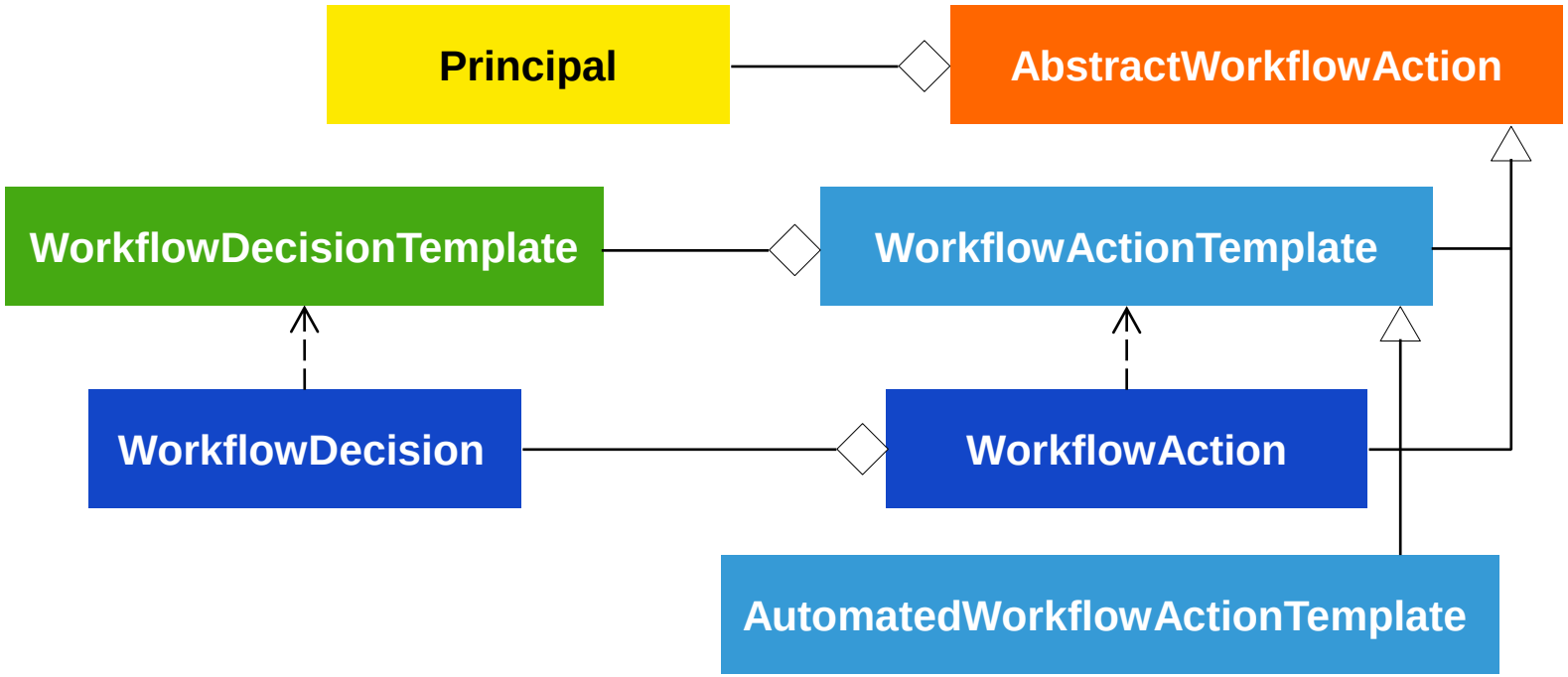
WorkflowActionTemplate



- Action definition in a workflow template
- Flow of WorkflowActionTemplates determined by WorkflowDecisionTemplates
- Each WorkflowActionTemplate has an assigned principal

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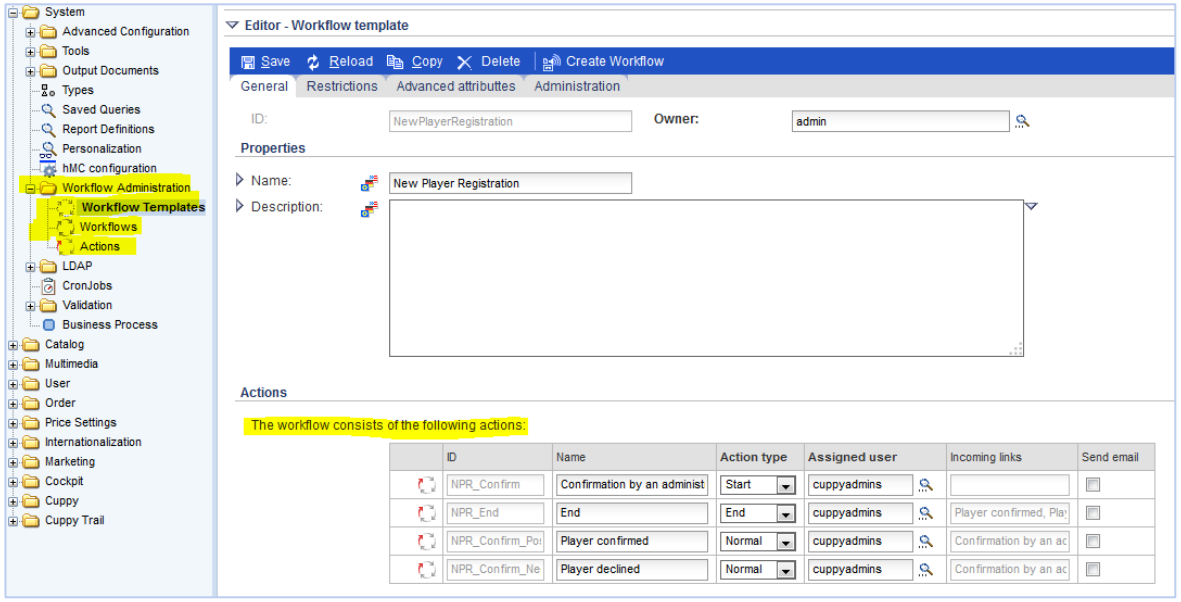
Modeling a Workflow

- Through API
  - Create WorkflowTemplateModel, ... (Service Layer)
  - ImpEx
- hybris Management Console (hMC)



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Starting a Workflow

- Through API
  - `WorkflowService`: creating, monitoring, ...
  - `WorkflowProcessingService`: starting, terminating, ...
- Activation Script
  - Evaluated each time an items is created, saved, removed
  - Access to *item*, *type*, *initial values* and / or *current values*
- Manually through UI (cockpit) if user is in `visibleForPrincipals`

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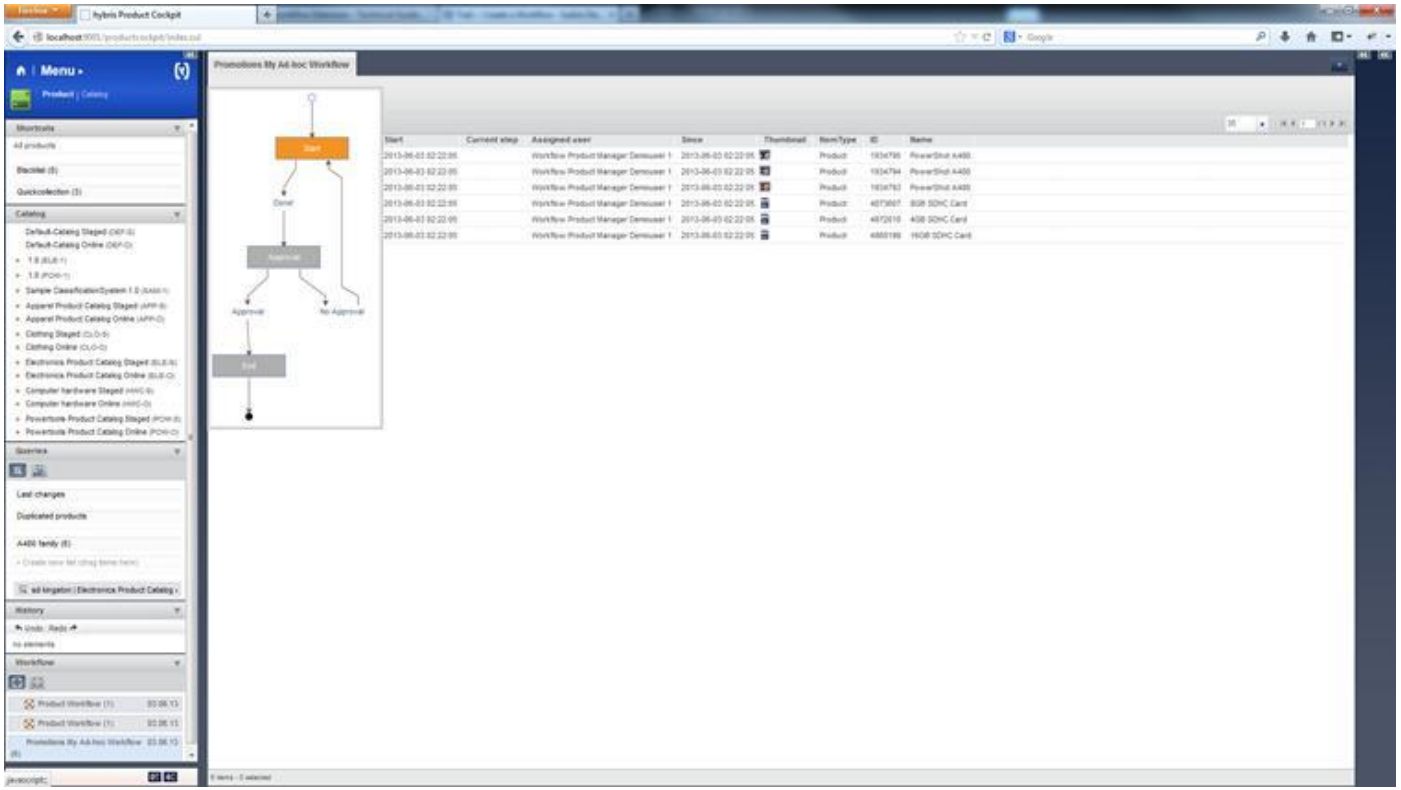
Displaying Workflows

- In Product Cockpit
  - Workflows for the current user



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Automated steps in a workflow

- Use automated steps if no manual interaction is needed
  - Any service layer business logic
- Implementation steps
  1. Implement interface `AutomatedWorkflowTemplateJob`
  2. Create a bean
  3. Any implementing class gets added automatically to `AutomatedWorkflowTemplateRegistry` during server start-up

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Quiz Questions

- Imagine you want to create a workflow for assigning a Car to each newly created Employee. What do steps you would have to do
  - The assignment task should be done by admin
  - Admin can also decide to let the Car being assigned automatically

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References

- https://wiki.hybris.com/display/release5/workflow+Extension+-+Technical+Guide
- https://wiki.hybris.com/pages/viewpage.action?pageId=141793777

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