



BeeCon 2016

Multiple Share-based applications on the same back-end Alfresco repository

Pitfalls and best practices



Something about me

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- 10 years ECM, 4 years Alfresco
- One daughter, one wife
- @hdebal



Agenda



Multiple Share clients, one repository

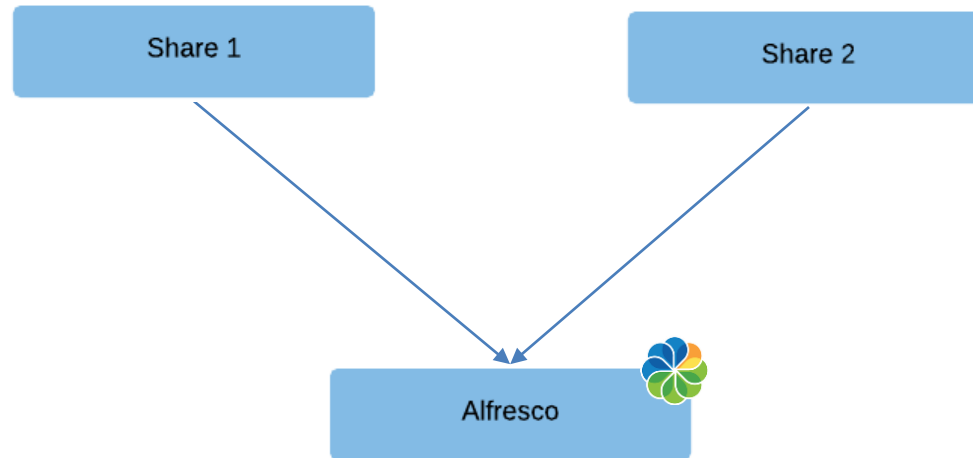


Pitfalls and best practices



Q&A

Multiple Share clients, one repository



- Share 1 = customized, share 2 = OOTB and no customization allowed
- Share 1 and share 2 = customized

Multiple Share clients, one repository

Home Overview cases ▾ Tasks & workflows ▾ Create case ▾ Search & reports ▾ Go to Case ID: Go

★ Case 10100 : Commercial activity

Data

ID:	10100
Status:	Open
Product type:	BT-Commercial activity
Underwriter:	Bank-Team User 1
Insured:	Fortis Bank NV Contracting CB Oost- en
Insured group:	(Geen)
Contact insured:	Heston Blumenthal
Broker:	WILLIS LTD - CREDIT RISKS
Primary debtor:	AKBANK N.V.
Primary debtor ID:	223407/81
Primary debtor group:	AKBANK
Country:	France: China
Currency insured amount:	JOD
Insured amount:	60,00
Reason closed:	(Geen)
Request date:	(Geen)
Decision level:	(Geen)
Target decision date:	(Geen)
Additional info:	You should fill comments here
Links:	(Geen)

Actions

[Edit case data](#)
[Go to case documents](#)
[Add reminder](#)
[Start workflow](#)
[Show running workflows](#)
[Change status](#)
[Set blocked](#)
[Add comment](#)
[Show comments](#)
[Show case history](#)

Reminders

No reminders available for this case

[Show closed reminders](#)

Core documents

No core documents available for this case

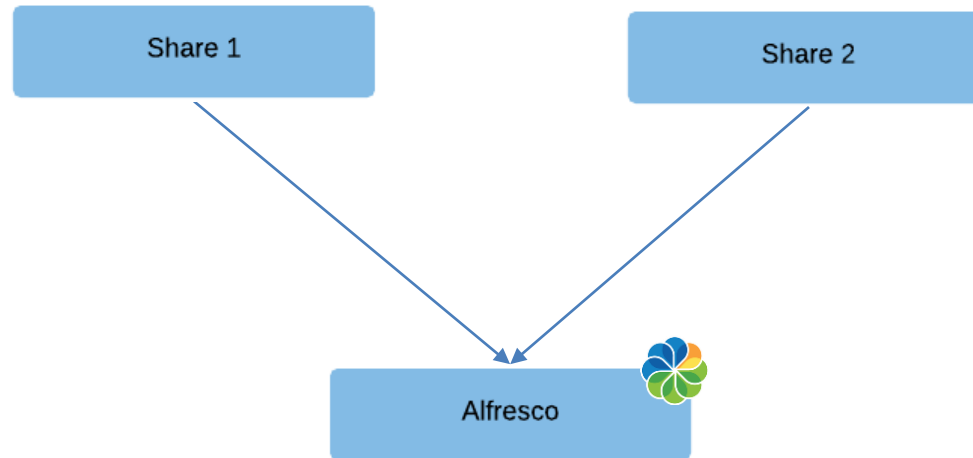
[Go to case documents](#)

Activity checklist

✔ Other activity

[Show completed activities](#)

Multiple Share clients, one repository



- Share 1 = customized, share 2 = OOTB and no customization allowed
- Share 1 and share 2 = customized

Challenge 1

Application specific
workflows

Pitfalls and best practices

Requirement: Only show application specific workflows

Workflow: Please select a workflow... ▼

- New Task
 - Assign a new task to yourself or a colleague
 - Review and Approve (group review)
 - Assign a review task to a group
 - Review and Approve (one or more reviewers)
 - Assign a review task to multiple reviewers
 - Review and Approve (pooled review)
 - Assign a review task to multiple reviewers, who can take ownership of the task
 - Review And Approve (single reviewer)
 - Assign a review task to a single reviewer



Pitfalls and best practices

Pitfall:

- Use exclude-parameter → Application specific workflows also available in OOTB-Share



Pitfalls and best practices

Best practice:

- Use naming convention for your custom workflows
- Extend webscript with new optional parameter “includeCustomWorkflows”
- Add parameter to REST call in custom Share

Pitfalls and best practices

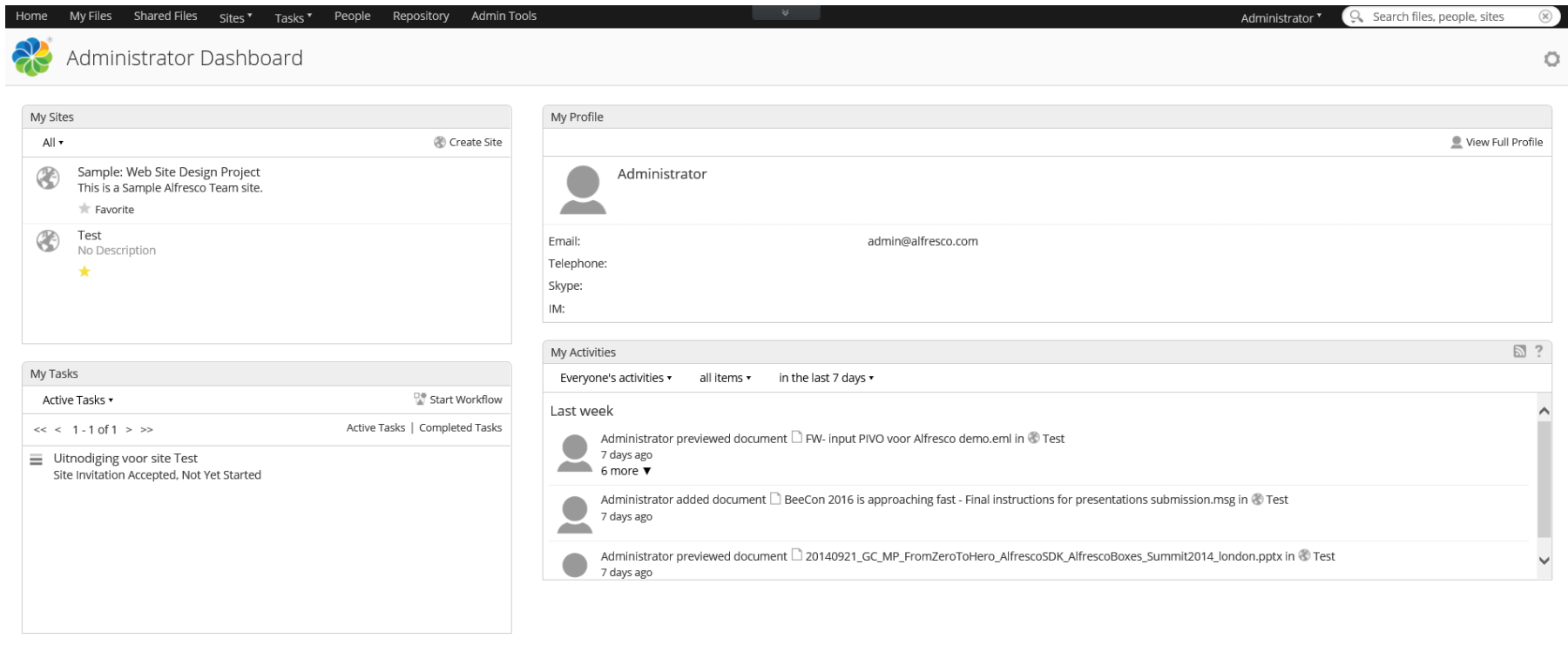
```
if (includeCustom)
{
    for (WorkflowDefinition workflowDefinition : workflowDefinitions)
    {
        // if present, filter out excluded definitions
        if (!org.apache.commons.lang.StringUtils.containsIgnoreCase(workflowDefinition.getName(), "custom"))
        {
            wfDefsToExclude.add(workflowDefinition.getName());
        }
    }
}
else
{
    // only non-uam workflows are allowed
    for (WorkflowDefinition workflowDefinition : workflowDefinitions)
    {
        // if present, filter out excluded definitions
        if (org.apache.commons.lang.StringUtils.containsIgnoreCase(workflowDefinition.getName(), "custom"))
        {
            wfDefsToExclude.add(workflowDefinition.getName());
        }
    }
}
```

Challenge 2

Personal dashboards

Pitfalls and best practices

- **Requirement:** Different dashboard per Share client



The screenshot displays the Alfresco Administrator Dashboard. The top navigation bar includes links for Home, My Files, Shared Files, Sites, Tasks, People, Repository, and Admin Tools. The user is logged in as Administrator, and a search bar is available for finding files, people, or sites.

The dashboard is divided into several sections:

- My Sites:** A list of sites with a 'Create Site' button. The sites listed are 'Sample: Web Site Design Project' (marked as a Favorite) and 'Test' (marked with a star).
- My Tasks:** A section for managing tasks, including a 'Start Workflow' button and a list of tasks. One task is visible: 'Uitnodiging voor site Test' (Site Invitation Accepted, Not Yet Started).
- My Profile:** A section for the user's profile, showing the name 'Administrator', email 'admin@alfresco.com', and fields for Telephone, Skype, and IM.
- My Activities:** A section for viewing activities, with filters for 'Everyone's activities', 'all items', and 'in the last 7 days'. The 'Last week' section shows three activities: 'Administrator previewed document', 'Administrator added document', and 'Administrator previewed document'.



Pitfalls and best practices

Pitfall:

- Dashboard interference between Share clients

Pitfalls and best practices

- How is the dashboard configuration stored?

Children

Child Name	Child Type	Child Reference	Primary	Association Type	Index
cm:page.title.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/7ad9c7e1-6e41-4d58-915d-1eb5021545b1	true	cm:contains	0
cm:page.full-width-dashlet.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/8f3aa414-ec31-494a-ba9e-ca4400818c4c	true	cm:contains	1
cm:page.component-1-1.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/bf76db50-0f58-44d5-983d-ea5dab3f792f	true	cm:contains	2
cm:page.component-1-2.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/575d0088-7645-4cf1-9720-3de22440c9d9	true	cm:contains	3
cm:page.component-2-1.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/35a4b72a-bb11-49e0-b79c-724d78762f04	true	cm:contains	4
cm:page.component-2-2.user~admin~dashboard.xml	cm:content	workspace://SpacesStore/f796ad98-f122-4c6e-8078-dc44bdea21f3	true	cm:contains	5
cm:page.title.user~hans~dashboard.xml	cm:content	workspace://SpacesStore/943bf92c-4b68-40cf-9008-8994c2a77134	true	cm:contains	6
cm:page.component-1-1.user~hans~dashboard.xml	cm:content	workspace://SpacesStore/941043c0-9c8e-4250-bdd1-e0b0711dae34	true	cm:contains	7
cm:page.component-1-2.user~hans~dashboard.xml	cm:content	workspace://SpacesStore/4d45206b-769c-4c7a-9113-9d9ad3edb895	true	cm:contains	8
cm:page.component-2-1.user~hans~dashboard.xml	cm:content	workspace://SpacesStore/ccff5b22-06d0-43fa-bfc9-0e75bb2845d3	true	cm:contains	9
cm:page.component-2-2.user~hans~dashboard.xml	cm:content	workspace://SpacesStore/2b8e7d1c-dd2a-4120-b18a-c0e73405c3ba	true	cm:contains	10

- User name is only variable



Pitfalls and best practices

- How is dashboard created?
 - UserDashboardInterceptor.java (checks if URL has pattern `.* /user/([^\s]*) /dashboard`)
- How is dashboard fetched?
 - ModelObjectService.getPage(pageId)

Pitfalls and best practices

Best practice: fixed dashboard

- Create dashboard-config files in development environment and load them on bootstrap
- Overwrite `ModelObjectService.getPage()`

```
public class ModelObjectService extends org.springframework.extensions.surf.ModelObjectService
{
    @Override
    public Page getPage(String objectId)
    {
        if (StringUtils.startsWith(objectId, "user/") && StringUtils.endsWith(objectId, "/dashboard"))
        {
            objectId = "user/fixed-dashboard/dashboard";
        }
        return super.getPage(objectId);
    }
}
```

Pitfalls and best practices

Best practice: configurable dashboards

- Overwrite
UserDashboardInterceptor.preHandle

```
WebFrameworkServiceRegistry serviceRegistry = rc.getServiceRegistry();  
if (serviceRegistry.getModelObjectService().getPage("user/custom_" + userid + "/dashboard") == null)  
{  
    // no dashboard found! create initial dashboard for this user...  
    Map<String, String> tokens = new HashMap<String, String>(2);  
    tokens.put("userid", "custom_" + userid);  
    serviceRegistry.getPresetsManager().constructPreset("user-dashboard", tokens);  
}
```

- Overwrite ModelObjectService.getPage()

```
<bean id="webframework.service.modelobject" class="com.amplexor.extensions.surf.ModelObjectService">  
    <property name="objectPersistenceService" ref="webframework.service.objectpersistence" />  
</bean>  
  
<bean id="userDashboardInterceptor" class="com.amplexor.extensions.surf.UserDashboardInterceptor" parent="abstractWebFrameworkInterceptor" />
```

Challenge 3

OOTB dashlets



Pitfalls and best practices

Requirement: Use OOTB dashlets (My Tasks, My documents, ...) in custom Share

Pitfall: OOTB dashlets (My Tasks, My documents, ...) not limited to application scope

Best practice:

- Cfr workflows: add parameter to REST call

Challenge 4

Share Actions



Pitfalls and best practices

Requirement: Hide actions

Pitfall: Action evaluators

Best practice: Use permissions

Q&A

Thank you!

