International technical event for developers, architects and DevOps teams

Meliá Costa del Sol, Málaga (Torremolinos), Spain
January 24–26, 2023
The conference program will be available soon:

- Connect with Hyland experts and leadership
- Hackathon
- Technical training
- Deep-dive presentations
- Lightning Tech Talks
- Q&A panels
- Registration now open!

Call for Paper is open

- Don’t wait to submit talks
- Open to Alfresco and Nuxeo
- Deadline November 15
All information:
https://web.cvent.com/event/c03ce216-9281-4a36-9c57-fb896e67abc1/

Call for Paper:
https://survey.alchemer.com/s3/6839578/Hyland-DevCon-2023-Call-for-Speakers
ACS 7.3 GENERAL AVAILABILITY

• Release scheduled **November 14th**

• **Highlights**
  • First version built with **Java 17** (despite **Java 11** is still supported)
  • First version supporting **Angular 14** for ADF
  • New REST API endpoints related to **Actions**
  • 20+ Bugs fixed
  • 2 Security patches
  • (Enterprise) Support for Elasticsearch **and** OpenSearch
  • (Enterprise) Activiti Web Console has been removed

• Stay tuned at Alfresco Hub and Alfresco website for release note and download

<table>
<thead>
<tr>
<th>Service</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfresco Content Services</td>
<td>7.3.0</td>
</tr>
<tr>
<td>Alfresco Share</td>
<td>7.3.0</td>
</tr>
<tr>
<td>Alfresco Transform</td>
<td>2.6.0</td>
</tr>
<tr>
<td>Alfresco Office Services</td>
<td>1.5.0</td>
</tr>
<tr>
<td>Alfresco Content Application</td>
<td>3.1.0</td>
</tr>
<tr>
<td>Alfresco Search Services</td>
<td>2.0.5</td>
</tr>
<tr>
<td>ActiveMQ</td>
<td>5.17.1</td>
</tr>
<tr>
<td>Postgres</td>
<td>14.4</td>
</tr>
<tr>
<td>Maven SDK</td>
<td>4.5</td>
</tr>
<tr>
<td>Java SDK</td>
<td>5.2</td>
</tr>
</tbody>
</table>
Let’s talk about software upgrades

- Please take this 1-2 minute survey to help us understand and improve the software upgrade experience all together at Hyland.

- See also on the Hub

https://survey3.medallia.com/?51fMji-LTAUpgrades
RESOURCES FROM THE COMMUNITY

From the Hub

- How many PATHs remain to be indexed?  

- Using AWS OpenSearch with Alfresco Search Enterprise 3.1  

- Alfresco Login Issues & How To Solve Them  

- Control indexing in Alfresco with Alfresco Search Services, by Abhinav Mishra  
TTL SPEAKERS WANTED!

Topics
- Open source projects
- Showcase of your best work
- Tips and tricks
- Discussions on best practices
- Technical talk and demos only!
- About Alfresco & Nuxeo or associated technologies
- And more! Just pitch it to the team

Benefits for Speakers
- Visibility in the ecosystem
- Goodies
- And other advantages
Enterprise Role Maintenance with ACS & APS

- Brian Long
  - Process Specialist
  - Inteligr8
  - Former Alfresco Engineer
Enterprise Role Maintenance

with ACS & APS
Agenda

- ACS & AIS Features & Pain Points
- APS & AIS Features & Pain Points
- ACS & AIS with Acosix Modules
- APS & AIS with Inteligr8 Extension
- Demostration
Identity in Alfresco Content Services
ACS Users & User Groups

- Authentication Subsystems
  - Internal Storage: alfrescoNtlm
  - LDAP: ldap/ldap-ad
  - AIS/Keycloak: ais

- Synchronization Subsystem
  - LDAP: ldap/ldap-ad
ACS Security

- Users & User Groups
  - Both are “Authority”
- Access Control Entry
  - Authority & Permission
- Access Control List
  - ACEs
- Nodes
  - ACLs
  - Inherited ACLs
ACS with Alfresco Identity Service

- User Authentication
  - Supported
  - ACS Trusts AIS & Validates
    - OAuth Access Token
- User Information
  - Supported
  - ACS Requests User Info
    - Open ID Connect
ACS with Alfresco Identity Service

- User Roles
  - Supported by AIS
  - Not Supported by ACS
    - May Use LDAP Synchronization (Lag)

- Share UI
  - Limited Support
Identity in Alfresco Process Services
APS Users & Groups

- Spring Framework Identity Service
  - Internal Storage (default)
  - LDAP
  - AIS/Keycloak
- Synchronization Subsystem
  - LDAP
APS vs Activiti

- Identity Services
  - Open Source Activiti
  - Proprietary APS
- API Confusion
  - If you are using APS, do NOT use Activiti Identity Service API
- APS Group Types
  - Capability
  - Organization
APS with Alfresco Identity Service

• User Authentication
  • Supported
  • APS Trusts AIS & Validates
    • OAuth Access Token
  • APS Rejects Unsynchronized Users
• User Information
  • Supported
  • APS Requests User Info
    • Open ID Connect
APS with Alfresco Identity Service

• User Roles
  • Supported by AIS
  • **Not Supported by APS**
    • May Use LDAP Synchronization (Lag)
Alfresco Content Services w/ Acosix Keycloak Modules
Acosix Keycloak Modules

- Axel Faust
- Project: https://github.com/Acosix/alfresco-keycloak
- Organization: https://acosix.de/
- Platform Module
  - Expands support and configurability for Keycloak (AIS).
- Share Module
  - Better support for Keycloak (AIS).
Acosix Keycloak & Roles for ACS

- Role Recognition Support
  - Immediate: On Authentication
  - Routine: On Token Refresh
- LDAP Not Needed/Used
- Shorter Authorization Security Hole (from lag)
Acosix Keycloak & Roles for ACS

• AIS Roles <=> ACS User Groups
  • ACS User Groups are hierarchical for inheritance
    • Parent for application uses (like folder ACLs)
    • Child for AIS synchronization
  • Sync’d ACS User Groups are created on-demand
    • May be created manually if needed
• Identity/authorization administration for ACS admins:
  • Add/remove sync’d ACS User Groups as subgroups to system or business ACS User Groups
AIS & ACS Role Mappings

AIS

- U has Role A
- U has Role B
- U has Role C
- U has Role D

ACS

- User Group 1
- User Group 2
- User Group 3
- User Group 4

Acosix

- User Group A
- User Group B
- User Group C
- User Group D
Alfresco Process Services
w/ Inteligr8 Keycloak Extension
Inteligr8 Keycloak Activiti App Extension

- Brian Long
- Project: https://bitbucket.org/inteligr8/keycloak-activiti-app-ext
- Organization: https://inteligr8.com
- The Extension
  - Adds support for create missing users
  - Adds support for role recognition
Inteligr8 Keycloak & Roles for APS

• Role Recognition Support
  • Immediate: On Authentication
  • Routine: On Token Refresh
• LDAP Not Needed/Used
• Shorter Authorization Security Hole (from lag)
AIS Roles map to APS Organizations
  - Configurable to map some to APS Capabilities
  - APS Organizations are hierarchical for inheritance
    - Parent for application uses (like Activity candidate groups)
    - Child for AIS synchronization
  - Sync’d APS Organizations are created on-demand

Identity/authorization administration for APS admins:
  - Add/remove sync’d APS Organizations as subgroups to system or business APS Organizations/Capabilities
AIS & APS Role Mappings

AIS

Organization 1

Inteligr8

Organization A

in

Organization 1

Organization 2

Organization B

in

Organization 2

Organization 3

Organization C

in

Organization 3

Organization 4

Organization D

in

Organization 4
Alfresco Digital Business Platform w/ Acosix & Inteligr8
Alfresco Digital Business Platform

- Users & Roles & User/Role Mappings
  - Managed by
    - AIS admins
    - Brokered Identity Provider teams
  - Roles are determined by the business requirements
  - Never managed by ACS or APS admin
Alfresco Digital Business Platform

- Role/ACS User Group Mappings
  - Managed by ACS admins
- Role/APS Organization Mappings
  - Managed as APS admins
- Role/AIS Role Mappings (optional)
  - Managed by AIS admins
  - Only needed if the text should be translated
    - Like IdP role ‘content-administrator’ to AIS role ‘acs-admin’
    - Avoid as it is just additional maintenance
- Supports both AIS Realm & Client Roles
Demonstration
Resources

- ACS Keycloak Module: https://github.com/Acosix/alfresco-keycloak
- APS Keycloak Extension: https://bitbucket.org/inteligr8/keycloak-activiti-app-ext