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Aikau Audit Report

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Enabling Audit

```
audit.enabled=true
```

```
[MyMac:~ sujay$ curl -u admin:admin http://localhost:8080/alfresco/service/api/audit/control
{
  "enabled" : true,
  "applications":
  [
    {
      "name": "Alfresco Tagging Service",
      "path" : "/tagging",
      "enabled" : true
    }
  ]
}
```

Alfresco Tagging Service, alfresco-access, CMISChangeLog



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Enabling Audit

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audit.enabled=true
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```
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      "path" : "/tagging",
      "enabled" : true
    }
  ]
}
```

Alfresco Tagging Service, alfresco-access, CMISChangeLog



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Enabling alfresco-access app.

```
audit.alfresco-access.enabled=true
```

```
[MyMac:~ sujays$ curl -u admin:admin http://localhost:8080/alfresco/service/api/audit/control
{
  "enabled" : true,
  "applications":
  [
    {
      "name": "Alfresco Tagging Service",
      "path" : "/tagging",
      "enabled" : true
    }
    ,
    {
      "name": "alfresco-access",
      "path" : "/alfresco-access",
      "enabled" : true
    }
  ]
}
```



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Enable/Disable Audit

Turn On

```
curl -u admin:admin -d "" "http://localhost:8080/alfresco/service/api/audit/control?enable=true"
```

Turn Off

```
curl -u admin:admin -d "" "http://localhost:8080/alfresco/service/api/audit/control?enable=false"
```



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Almost all important service can be audited



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Viewing Audit Data

- Return the latest 5 audit entries of user mjackson in descending order:

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-access/transaction/user?value=mjackson&verbose=true&forward=false&limit=5"
```

- Return the first 5 entries of document TEST.JPG:

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-access/transaction/path?verbose=true&limit=5&value=/app:company_home/cm:Test%20Space/cm:TEST.JPG"
```

- Return the first 5 DELETED nodes:

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-access/transaction/path?verbose=true&limit=5&value=/app:company_home/cm:Test%20Space/cm:TEST.JPG"
```

- Return the first 5 audit entries of a noderef:

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-access/transaction/node?verbose=true&valueType=org.alfresco.service.cmr.repository.NodeRef&value=workspace://SpacesStore/1ed5faca-34ee-42de-8ed0-51699f758055"
```



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Back in days of Alfresco Explorer

Preview of 'bird.docx'					
Preview of 'bird.docx'					
Preview the content or space within a Template.					
show_audio.fd					
Current Document Audit Info					
Name: bird.docx					
User Name	Application	Method	Timestamp	Audit Entry Values	
aaa	alfresco-access	CREATE	Sep 7, 2011 1:24:56 PM	<ul style="list-style-type: none">• /alfresco-access/transaction/action = CREATE• /alfresco-access/transaction/aspects/add<ul style="list-style-type: none">◦ cm:auditable<ul style="list-style-type: none">◦ sys:referenceable◦ cm:titled◦ cm:versioned◦ /alfresco-access/transaction/user = aaa◦ /alfresco-access/transaction/path = /app:company_home/app:user_homes/sys:aaa/cm:/bird.doc◦ /alfresco-access/transaction/sub-actions = addNode&Aspect createNode updateNodeProperties createContent readContent◦ /alfresco-access/transaction/type = cm:content◦ /alfresco-access/transaction/properties/add<ul style="list-style-type: none">◦ cm:filename = bird.doc◦ sysnode-dba = 559◦ sysstore-identifier = SpacesStore◦ cm:content = content@=store://2011/9/7/13/24/dcdbff3-4091-4f79-92f7-d6e0781cd4f.bin mimetype=application/vnd.openxmlformats-officedocument.wordprocessingml.document size=9876 encoding=UTF-8 locale=en_US id=61◦ cm:content-blob-data◦ cm:author = adavis◦ sysnode-uuid = 34d465d9-0c9f-4748-9eaa-c44fb7ead49◦ cm:modified = Sep 7, 2011 1:24:56 PM◦ cm:created = Sep 7, 2011 1:24:56 PM◦ sysstore-protocol = workspace◦ cm:description =◦ cm:creator = aaa◦ cm:modifier = aaa	
admin	alfresco-access	UPDATE CONTENT	Sep 7, 2011 1:27:55 PM	<ul style="list-style-type: none">• /alfresco-access/transaction/action = UPDATE CONTENT• /alfresco-access/transaction/user = admin• /alfresco-access/transaction/path = /app:company_home/app:user_homes/sys:aaa/cm:/bird.doc• /alfresco-access/transaction/properties/from =<ul style="list-style-type: none">◦ cm:modified = Sep 7, 2011 1:25:30 PM◦ cm:content = content@=store://2011/9/7/13/25/f4e49a-b62a-439a-88ac-b00d7454bb26.bin mimetype=application/vnd.openxmlformats-officedocument.wordprocessingml.document size=10854 encoding=UTF-8 locale=en_US id=63◦ cm:modifier = aaa• /alfresco-access/transaction/properties/to =<ul style="list-style-type: none">◦ cm:modified = Sep 7, 2011 1:27:55 PM◦ cm:content = content@=store://2011/9/7/13/27/702409b4-7477-4818-a8ae-c1f597098a45.bin mimetype=application/vnd.openxmlformats-officedocument.wordprocessingml.document size=10623 encoding=UTF-8 locale=en_US id=64◦ cm:modifier = admin• /alfresco-access/transaction/sub-actions = updateNodeProperties updateContent readContent• /alfresco-access/transaction/type = cm:content	
admin	alfresco-access	READ	Sep 7, 2011 1:31:03 PM	<ul style="list-style-type: none">• /alfresco-access/transaction/action = READ• /alfresco-access/transaction/user = admin• /alfresco-access/transaction/path = /app:company_home/app:user_homes/sys:aaa/cm:/bird.doc• /alfresco-access/transaction/sub-actions = readContent• /alfresco-access/transaction/type = cm:content	



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At present – AIKAU Era



A screenshot of a web browser displaying the Alfresco Audit Trail interface. The URL in the address bar is `localhost:8081/share/page/site/swsdp/hdp/ws/list-auditdata?nodeRef=workspace://SpacesStore/1a0b110f-1e09-4ca2-b367-fe25e4964a4e`. The page shows a list of audit entries for the file "Project Contract.pdf". The audit data table has columns for User Name, Application, Method, Time, and Audit Entry Values. The entries show various access and update actions performed by users like admin and mjackson on March 21, 2016, and March 27, 2016.

User Name	Application	Method	Time	Audit Entry Values
admin	alfresco-access	READ	Monday, 21 March, 2016 at 12:30 AM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin
admin	alfresco-access	READ	Monday, 21 March, 2016 at 11:16 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin
admin	alfresco-access	READ	Monday, 21 March, 2016 at 11:17 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin
admin	alfresco-access	UPDATE NODE PROPERTIES	Monday, 21 March, 2016 at 11:17 PM	/alfresco-access/transaction/sub-actions = updateNodeProperties addNodeAspect readContent /alfresco-access/transaction/aspectId = ({http://www.alfresco.org/model/content/1.0}taggable) /alfresco-access/transaction/propertyId = ({http://www.alfresco.org/model/content/1.0}modified=Mon Mar 21 23:17:48 MYT 2016, {http://www.alfresco.org/model/content/1.0}description=[en=Contract for the Green Energy project - Test]) /alfresco-access/transaction/propertyIdFrom = ({http://www.alfresco.org/model/content/1.0}title=[en=Project Contract for Green Energy], ({http://www.alfresco.org/model/content/1.0}modified=Tue Jun 14 18:28:54 MYT 2011, ({http://www.alfresco.org/model/content/1.0}description=[en_US=Contract for the Green Energy project])) /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/propertiesAdd = ({http://www.alfresco.org/model/content/1.0}taggable=null) /alfresco-access/transaction/propertyIdAdd = ({http://www.alfresco.org/model/content/1.0}taggable=null) /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/user = admin
admin	alfresco-access	READ	Monday, 21 March, 2016 at 11:17 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin
admin	alfresco-access	READ	Monday, 21 March, 2016 at 11:18 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin
mjackson	alfresco-access	READ	Monday, 21 March, 2016 at 11:50 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = mjackson
mjackson	alfresco-access	READ	Monday, 21 March, 2016 at 11:52 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = mjackson
admin	alfresco-access	READ	Sunday, 27 March, 2016 at 12:40 PM	/alfresco-access/transaction/sub-actions = readContent /alfresco-access/transaction/action = READ /alfresco-access/transaction/type = cm:content /alfresco-access/transaction/path = /app:company_home/stsites/cm:swsdp/cm:documentLibrary/cm:Agency Files/cm:Contracts/cm:Project Contract.pdf /alfresco-access/transaction/user = admin

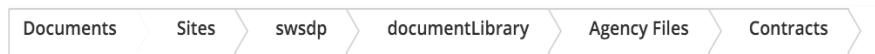


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Widgets used on Page

- alfresco/documentlibrary/AlfBreadcrumbTrail
- alfresco/documentlibrary/views/layouts/HeaderCell
- alfresco/layout/LeftAndRight
- alfresco/rendererers/FileType
- alfresco/rendererers/PropertyLink
- alfresco/rendererers/Separator
- alfresco/rendererers/Version
- alfresco/rendererers/Date
- alfresco/rendererers/Favourite
- alfresco/rendererers/Like
- alfresco/layout/ClassicWindow
- alfresco/lists/AlfList
- alfresco/lists/views/AlfListView
- alfresco/lists/views/layouts/Row
- alfresco/lists/views/layouts/Cell
- alfresco/rendererers/Property



Audit Trail for: **Project Contract.pdf** 1.1

Modified 7 days ago by Administrator  Favourite  Like 0



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From Document Library Action

The screenshot shows a SharePoint document library interface. On the left is a navigation bar with sections for 'Documents' (All Documents, I'm Editing, Others are Editing, Recently Modified, Recently Added, My Favorites), 'Library' (Documents, Agency Files, Contracts, Images, Logo Files, Mock-Ups, Video Files, Budget Files, Meeting Notes, Presentations), and 'Categories' (Category Root). The 'Contracts' item under 'Library' is highlighted with a gray background. In the center, there's a list of files. One file, 'Project Contract.pdf' (modified 7 days ago by Administrator, 373 KB), is selected and shown in detail. The right side features a ribbon with 'Name' and 'Options' dropdowns. A context menu is open over the selected file, listing options like Download, View in Browser, Edit Properties, More..., Upload New Version, Edit Offline, Copy to..., Move to..., Delete Document, Start Workflow, Manage Permissions, and Audit Trail. The 'Audit Trail' option is highlighted with a gray background.



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From Document Details Action

The screenshot shows a document details page for "Project Contract.pdf".

Document Actions:

- View in Browser
- Edit Offline
- Upload New Version
- Edit Properties
- Move to...
- Copy to...
- Start Workflow
- Manage Permissions
- Become Owner
- Manage Aspects
- Change Type
- Audit Trail

Tags:
(None)

Share:
Copy this link to share the current page
<http://localhost:8081/share/page/site/swsdp/document-details?nodeRef=/workspace/!a0b10f-1e09-4c>

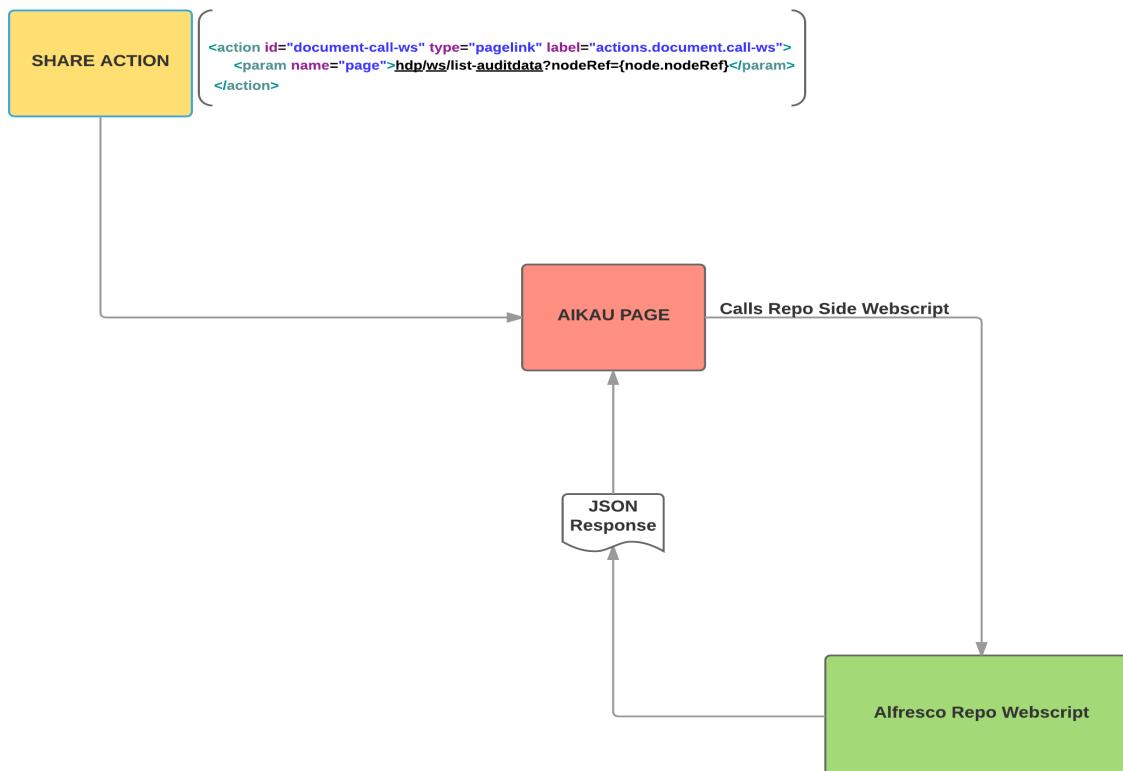
Properties:

Name	Value
Name	Project Contract.pdf
Title	Project Contract for Green Energy
Description	Contract for the Green Energy project - Test
Author	Alice Beecher
Owner	admin
Mimetype	Adobe PDF Document
Size	373 KB
Creator	abeecher
Created Date	Wed 16 Feb 2011 05:26:54
Modifier	admin
Modified Date	Mon 21 Mar 2016 23:18:31



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How is the Audit data fetched?



<http://localhost:8080/alfresco/service/api/ev/nodeaudittrail?nodeRef=<nodeRef>>



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Tips

- Alfresco RM Module – Best place to start for understanding & developing audit applications

```
<Application name="alfresco-access" key="alfresco-access">
  <AuditPath key="transaction">
    <RecordValue key="node" dataExtractor="simpleValue"
      dataSource="/alfresco-access/transaction/node"
      dataTrigger="/alfresco-access/transaction/node"/>
  </AuditPath>
</Application>
```

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-
access/transaction/node?verbose=true&valueType=org.alfresco.service.cmr.repository.NodeRef&value=workspace://SpacesSt
ore/1ed5faca-34ee-42de-8ed0-51699f758055"
```



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Tips

- Alfresco RM Module – Best place to start for understanding & developing audit applications

```
<Application name="alfresco-access" key="alfresco-access">
  <AuditPath key="transaction">
    <RecordValue key="node" dataExtractor="simpleValue"
      dataSource="/alfresco-access/transaction/node"
      dataTrigger="/alfresco-access/transaction/node"/>
  </AuditPath>
</Application>
```

```
curl -u admin:admin "http://localhost:8080/alfresco/service/api/audit/query/alfresco-access/alfresco-
access/transaction/node?verbose=true&valueType=org.alfresco.service.cmr.repository.NodeRef&value=workspace://SpacesSt
ore/1ed5faca-34ee-42de-8ed0-51699f758055"
```



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RM Audit Report

localhost:8080/share/page/console/rm-console/

Administrator Search files, people, sites

Home My Files Shared Files Sites Tasks People Repository Admin Tools

RM Admin Tools

▼ Tools

- Audit
- Custom Metadata
- Define Roles
- Email Mappings
- Events
- List of Values
- Relationships
- User Rights Report
- Users and Groups

Audit

Number of entries: From: 2016-02-01 To: 2016-04-30 Users: All users Event: All

Run Audit Report Export File as Record

Showing last 20 entries in log

Timestamp	User	Role	Event	Details
Tue 19 Apr 2016 02:20:04	Administrator		Login Succeeded	Details
Tue 5 Apr 2016 01:57:45	Administrator		Login Succeeded	Details
Tue 5 Apr 2016 01:57:41	Administrator		Login Succeeded	Details
Tue 5 Apr 2016 01:56:29	Administrator		Login Succeeded	Details
Tue 5 Apr 2016 01:56:21	Administrator		Login Succeeded	Details
Tue 5 Apr 2016 01:52:45	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:31:36	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:31:35	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:12	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:11	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:11	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:10	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:08	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:08	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:08	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:05	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:04	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:04	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:03	Administrator		Login Succeeded	Details
Mon 4 Apr 2016 20:14:01	Administrator		Login Succeeded	Details



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Enhancements

- Add a filter (by user, action, time range)
- Develop a Admin console page



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Current Status

- Alfresco SDK 2.2.0 (Alfresco 5.1)
- AIKAU – 1.0.39.5



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Resources

Github

<https://github.com/sujaypillai/ev-aikau-auditreport>

Twitter

[@sujaypillai](https://twitter.com/sujaypillai)

Blog

<http://sujayopillai.com>



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