



BeeCon 2016



Content Intelligence on Alfresco with A.A.R.

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Presentations

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fcorti.com





Let's talk about



BeeCon 2016



Let's talk about

Analytics



BeeCon 2016



Let's talk about

Analytics

On Alfresco



BeeCon 2016



Let's talk about

Analytics

On Alfresco

Customized



BeeCon 2016



Let's talk about

Analytics

On Alfresco

Customized

And Extended



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What's the meaning of analytics on Alfresco?



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What's the meaning of analytics on Alfresco?



1. Audit trail



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What's the meaning of analytics on Alfresco?



1. Audit trail
2. Repository



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What's the meaning of analytics on Alfresco?



1. Audit trail
2. Documents, folders



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What's the meaning of analytics on Alfresco?



1. Audit trail
2. Documents, folders
3. Workflows



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What about custom properties?



1. Audit trail
2. Documents, folders
3. Workflows



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Alfresco » Model Manager - Mozilla Firefox

Alfresco » Model M... +

localhost:8080/share/page/console/admin-console/custom-model-manager#

Search

Home My Files Shared Files Sites Tasks People Repository Admin Tools Administrator Search files, people, sites

Model Manager

▼ Tools

- Application
- Category Manager
- Module Browser
- Node Browser
- Tag Manager
- Model Manager**
- Sites Manager
- Repository
- Replication Jobs
- Users and Groups
- Groups
- Users

Models are used to manage custom types and aspects.
You can create a new model, or select an existing model name, and create and view associated custom types and aspects.

[Create Model](#) [Import Model](#)

Models

Name	Namespace	Status	Actions
use-case-two	usecase2	Inactive	Actions ▾
use-case-one	usecase1	Active	Actions ▾

Alfresco is customizable using **custom models**



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Alfresco Community



Alfresco custom models

- Custom models are defined using **custom properties** grouped in types and aspects

Create Property

Name: * Enter a name for the property. This will automatically prefix the model namespace.

Display Label:

Description:

Data Type: Select the data type this property can contain.

Requirement: Select if the property value is optional or mandatory.

Multiple: Select if the property should be multivalued.

Default Value: Enter a default value for this property that is appropriate for the selected data type.

Constraint:



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Alfresco custom models

- Custom properties are one of the **values** of the repository in terms of **information**

Create Property

Name: * Enter a name for the property. This will automatically prefix the model namespace.

Display Label: Enter a display label for the property.

Description:

Data Type: Select the data type this property can contain.

Requirement: Select if the property value is optional or mandatory.

Multiple: Select if the property should be multivalued.

Default Value: Enter a default value for this property that is appropriate for the selected data type.

Constraint:



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Alfresco custom models

- Custom properties are one of the **highest values** of the repository in terms of information

Create Property

Name: * Enter a name for the property. This will automatically prefix the model namespace.

Display Label: Enter a display label for the property.

Description:

Data Type: Select the data type this property can contain.

Requirement: Select if the property value is optional or mandatory.

Multiple: Select if the property should be multivalued.

Default Value: Enter a default value for this property that is appropriate for the selected data type.

Constraint:



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Alfresco custom models

- Custom properties are one of the highest values of the repository in terms of information

What will we discover
repository in terms
analyzing custom properties?

Create Property

Name: Enter a name for the property. This will automatically prefix the model namespace.

Display Label: Enter a display label for the property.

Description:

Data Type: Select the data type for this property. Common types include d:text, d:float, and d:nodeRef.

Requirement: Select if the property value is optional or mandatory.

Multiple: Select if the property should be multivalued.

Default Value: Enter a default value for this property that is appropriate for the selected data type.

Constraint: Select a constraint for this property.



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Use case n.1



Purchase order



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Use case n.1 - Purchase order

- Mr. Shorts owns ACME Ltd
- ACME stores into Alfresco:
 - Offers and contracts
 - Emails about negotiations
 - Receipt of payments
 - ...



Mr. Shorts



Use case n.1 - Purchase order

Skin: Honeycomb

Navigation bar: Home, Search, Help, Logout

Left sidebar:

- Documents
 - I'm Editing
 - My Favorites
- Repository
 - Repository
 - ACME ltd
 - Negotiation n.1
 - Emails
 - Payments
 - Negotiation n.2
 - Negotiation n.3
 - Negotiation n.4
 - Data Dictionary
 - Gu...
 - Im...
 - IM...
 - Sh...
 - Sit...
 - Us...
- Categ...
- Category Root
- Tags

Main content area:

- Select ▾
- + Create... ▾
- Upload
- Selected Items... ▾

Breadcrumb: Repository > ACME ltd > Negotiation n.1

<input type="checkbox"/>	Emails	Modified 14 minutes ago by Administrator
<input type="checkbox"/>	Payments	Modified 6 minutes ago by Administrator
<input type="checkbox"/>	Contract signed	Modified 10 minutes ago by Administrator 11 bytes
<input type="checkbox"/>	Initial offer	Modified 13 minutes ago by Administrator 11 bytes
<input type="checkbox"/>	Reviewed offer n.1 (Initial offer)	Modified 9 minutes ago by Administrator 11 bytes

A callout box points to the "Negotiation n.1" folder in the left sidebar with the text: "Negotiation folders are developed as custom type with id, client, state and several dates".



Mr. Shorts

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Alfresco Community

Use case n.1 - Purchase order

Documents

- I'm Editing
- My Favorites

Repository

- Repository
- ACME ltd
 - Negotiation n.1
 - Emails
 - Payments
 - Negotiation n.2
 - Negotiation n.3
 - Negotiation n.4
- Data Dictionary
- Guest Home
- Imap Attachments
- IMAP Home
- Shared
- Sites
- User Homes

Categories

- Category Root

Tags



Select ▾ + Create... ▾ Selected Items... ▾

Repository > ACME ltd > Negotiation n.1

- Emails
Modified 14 minutes ago by Administrator

Contains all the relevant emails about the negotiation. The emails are stored with sender, dates, etc.



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Use case n.1 - Purchase order

Documents

- I'm Editing
- My Favorites

Repository

- Repository
- ACME ltd
 - Negotiation n.1
 - Emails
 - Payments
- Negotiation n.2
- Negotiation n.3
- Negotiation n.4

- Data Dictionary
- Guest Home
- Imap Attachments
- IMAP Home
- Shared
- Sites
- User Homes

Categories

- Category Root

Tags



Select ▾ + Create... ▾ Selected Items... ▾

Repository > ACME ltd > Negotiation n.1

- Emails Modified 14 minutes ago by Administrator
- Payments Modified 6 minutes ago by Administrator

Contains all the payment receipts with bank accounts, dates, etc.



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Use case n.1 - Purchase order

Documents

- I'm Editing
- My Favorites

Repository

- Repository
- ACME ltd
 - Negotiation n.1
 - Emails
 - Payments
- Negotiation n.2
- Negotiation n.3
- Negotiation n.4

- Data Dictionary
- Guest Home
- Imap Attachments
- IMAP Home
- Shared
- Sites
- User Homes

Categories

- Category Root

Tags



Select ▾ + Create... ▾ Selected Items... ▾

Repository > ACME ltd > Negotiation n.1

- Emails Modified 14 minutes ago by Administrator
- Payments Modified 6 minutes ago by Administrator
- Contract signed Modified 10 minutes ago by Administrator 11 bytes

Contains all the contracts with dates, signers, sales manager, etc.



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Use case n.1 - Purchase order

Contains all the offers with dates, sales manager, etc.

The screenshot shows a file browser interface. On the left, there's a sidebar with 'Documents' and 'Repository' sections. Under 'Repository', 'ACME ltd' contains 'Negotiation n.1' (which is selected), 'Emails', 'Payments', and 'Negotiation n.2'. A callout box highlights 'Negotiation n.1' with the text: 'Contains all the offers with dates, sales manager, etc.' Below the sidebar is a 'Category Root' section with a bee icon and a 'Tags' section. At the bottom is the 'Alfresco Community' logo. The main area displays a list of files in 'Negotiation n.1':

- Emails (Modified 14 minutes ago by Administrator)
- Payments (Modified 6 minutes ago by Administrator)
- Contract signed (Modified 10 minutes ago by Administrator, 11 bytes)
- Initial offer (Modified 13 minutes ago by Administrator, 11 bytes)
- Reviewed offer n.1 (Initial offer) (Modified 9 minutes ago by Administrator, 11 bytes)

Pagination at the bottom indicates 1-5 of 5 items.



Mr. Shorts

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[Home](#)[1. Configure](#)[2. Install](#)[3. Use](#)[Customize](#)[About](#)[Alfresco installations](#)[Custom types and aspects](#)[Publishing customizations](#)

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Declaring A.A.A.R. setup of custom properties

[Alfresco installations](#)[Custom types and aspects](#)[Publishing customizations](#)[Home](#)[1. Configure](#)[2. Install](#)[3. Use](#)[Customize](#)[About](#)

Instance

Default Alfresco instance

Type

Folder types

Class

uc1:negotiation

Property

cm:name (d:text)

cm:name (d:text)

uc1:client_id (d:text)

uc1:creation (d:date)

uc1:id (d:text)

uc1:state (d:text)



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Click on a property to delete it.

Id	Instance	Class	Property	D	F	A
2	Default Alfresco instance	uc1:contract	uc1:contract_creation (d:date)	Y	N	N
1	Default Alfresco instance	uc1:negotiation	uc1:id (d:text)	N	Y	N

[Add property](#)



Use case n.1 - AAAR data mart

-  **Tables (46)** 
 - +  dm_custom_metadata
 - +  dm_dim_actions
 - +  dm_dim_alfresco
 - +  dm_dim_dates
 - +  dm_dim_documents
 - +  dm_dim_documents_uc1_Receipt_of_payment
 - +  dm_dim_documents_uc1_contract
 - +  dm_dim_documents_uc1_email
 - +  dm_dim_documents_uc1_offer
 - +  dm_dim_folders
 - +  dm_dim_folders_uc1_negotiation
 - +  dm_dim_hours
 - +  dm_dim_mime_types
 - +  dm_dim_minutes
 - +  dm_dim_months
 - +  dm_dim_node_types
 - +  dm_dim_paths
 - +  dm_dim_users
 - + dm_dim_workflow_definitions



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Use case n.1 - AAAR data mart

-  **Tables (46)** 
 - +  dm_custom_metadata
 - +  dm_dim_actions
 - +  dm_dim_alfresco
 - +  dm_dim_dates
 - +  dm_dim_documents
 - +  dm_dim_documents_uc1_Receipt_of_payment
 - +  dm_dim_documents_uc1_contract
 - +  dm_dim_documents_uc1_email
 - +  dm_dim_documents_uc1_offer
 - +  dm_dim_folders
 - +  dm_dim_folders_uc1_negotiation
 - +  dm_dim_hours
 - +  dm_dim_mime_types
 - +  dm_dim_minutes
 - +  dm_dim_months
 - +  dm_dim_node_types
 - +  dm_dim_paths
 - +  dm_dim_users
 - + dm_dim_workflow_definitions

Tables with custom types
for documents

Tables with custom types
for folders





Table dm_dim_folders_uc1_negotiation

Properties

Definition

Inherits

Like

Columns

Constraints

Auto-vacuum

Privileges

Column name	Definition	Inherited fi
folder_id	integer NOT NULL	6
prog	smallint NOT NULL DEFAULT 1	6
uc1_id	character varying(512)	6
uc1_state	character varying(512)	6
uc1_client_id	character varying(512)	6
uc1_creation	date	6
alfresco_id	smallint NOT NULL	6
src_id	integer NOT NULL	6

Fields with custom properties
for each table containing a
custom type or aspect

Change

Add

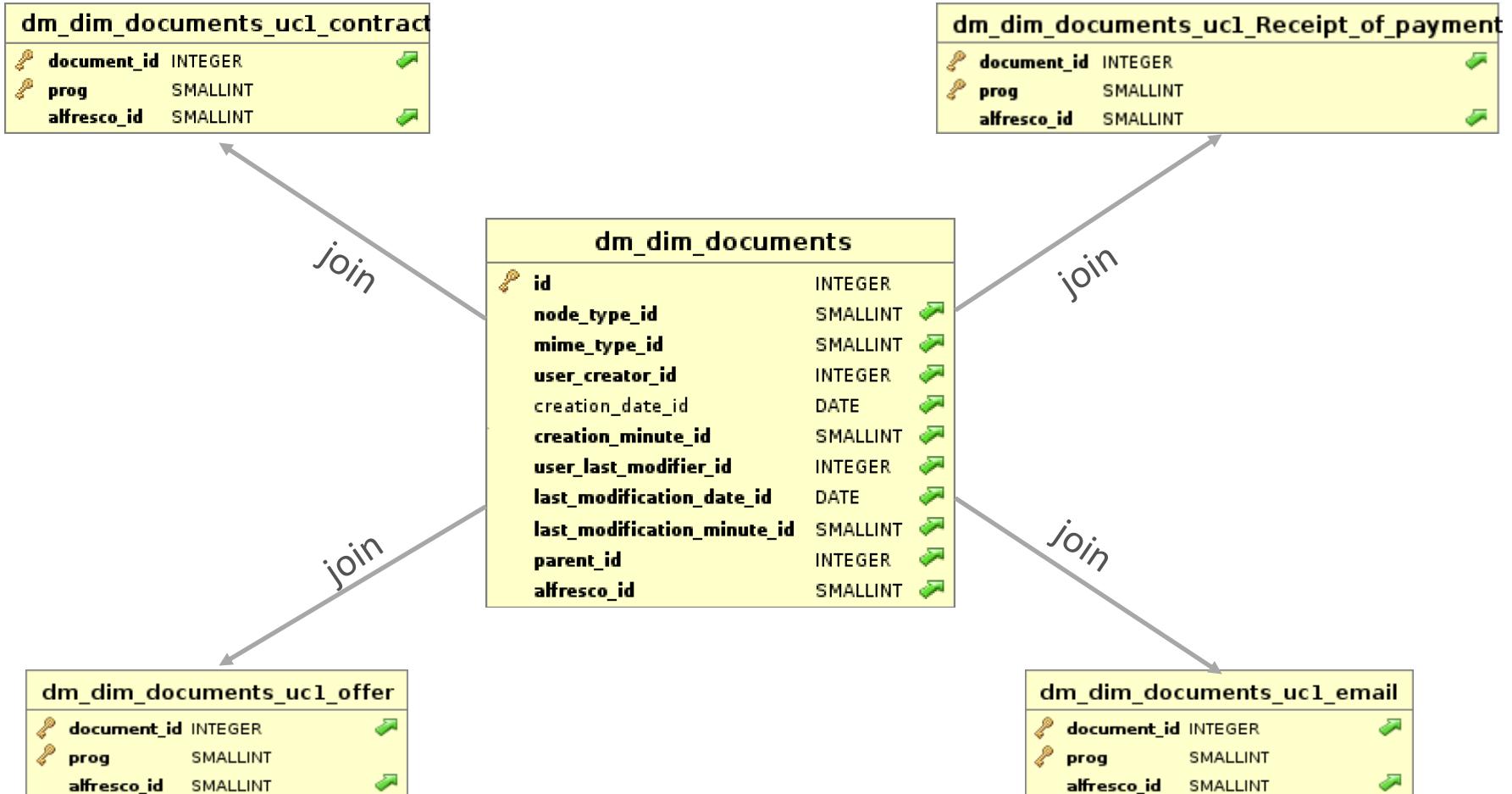
Remove



Help

OK

Cancel



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aaar@aaar: ~/biserver-ce/pentaho-solutions/system/AAAR/endpoints/kettle/script

A.A.A.R. - Alfresco Audit Analysis and Reporting
Import procedure version 4.2.
Author: Francesco Corti (all rights reserved)
Date: 21 February 2016
Documentation and tips: <http://fcorti.com>.

Disclaimer:

We can't be responsible for any damage done to your system,
which hopefully will not happen.

You are going to execute this command:

```
./kitchen.sh /rep:"AAAR_Kettle" /job:"Get all" /dir:/Alfresco /user:admin /pass:admin /param:get_audit=true /param:get_nodes=true /param:get_workflows=true /log="/home/aaar/biserver-ce/pentaho-solutions/system/AAAR/endpoints/kettle/script/../logs/AAR.log" /level:Basic
```

Press <enter> to start import.

```
Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=256m; support was removed in 8.0
12:46:57,069 INFO [KarafInstance]
*****
*** Karaf Instance Number: 1 at /home/aaar/data-integration/.system/karaf/
*** /data1
*** Karaf Port:8801
*** OSGI Service Port:9050
*****
Mar 13, 2016 12:46:57 PM org.apache.karaf.main.Main$KarafLockCallback lockAquired
INFO: Lock acquired. Setting startlevel to 100
2016/03/13 12:46:58 - Kitchen - Logging is at level : Basic logging
2016/03/13 12:46:58 - Kitchen - Start of run.
2016/03/13 12:46:58 - RepositoriesMeta - Reading repositories XML file: /home/aaar/.kettle/repositories.xml
/home/aaar/Desktop/data-integration/system/karaf/deploy does not exist, please create it.
Root path does not exist: /home/aaar/Desktop/data-integration/system/karaf/deploy
2016/03/13 12:46:59 - cfgbuilder - Warning: The configuration parameter [org] is not supported by the default configuration
builder for scheme: sftp
2016-03-13 12:47:03.068:INFO:oejs.Server:jetty-8.1.15.v20140411
```

A.A.A.R. extract





Pentaho enables analytics

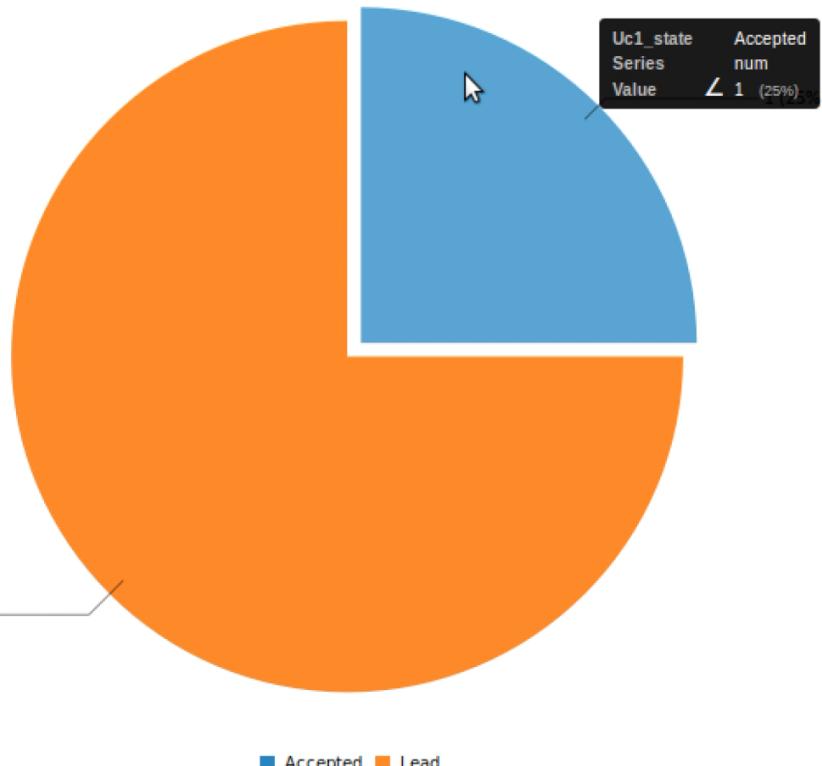


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Negotiations per state

2016-03-07 > 2016-03-14





Negotiations details

2016-03-07 > 2016-03-14

Show 10 entries

Search:

name	uc1_creation	uc1_state	min_dt	min_dt	num_emails	num_contracts	num_offers	num_receipts
Negotiation n.2	2016-03-01	Lead	2016-03-11	2016-03-11	1	0	0	0
Negotiation n.3	2016-03-04	Lead	2016-03-04	2016-03-04	1	0	0	0
Negotiation n.4	2016-03-06	Lead	2016-03-07	2016-03-11	2	0	2	0
Negotiation n.1	2016-03-14	Accepted	2016-03-15	2016-03-25	4	5	4	2

Showing 1 to 4 of 4 entries

Previous

1

Next



Negotiations per weight

2016-03-07 > 2016-03-14



- Giving a weight in terms of efforts to the negotiations
- Evaluate the most efficient and improve the sales lifecycle

Already responsive





From... To...



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Data Mart extension



- Starting from Alfresco content



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Data Mart extension





Data Mart extension



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Use case n.2



Hospitals and
Pharmaceutic
Companies



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Use case n.2 - Patients

- Doctor Frank manages the Healthy Hospital
- Healthy hospital stores into Alfresco:
 - Exams of patients
 - Medical documents



Doctor Frank



Use case n.2 - Patients

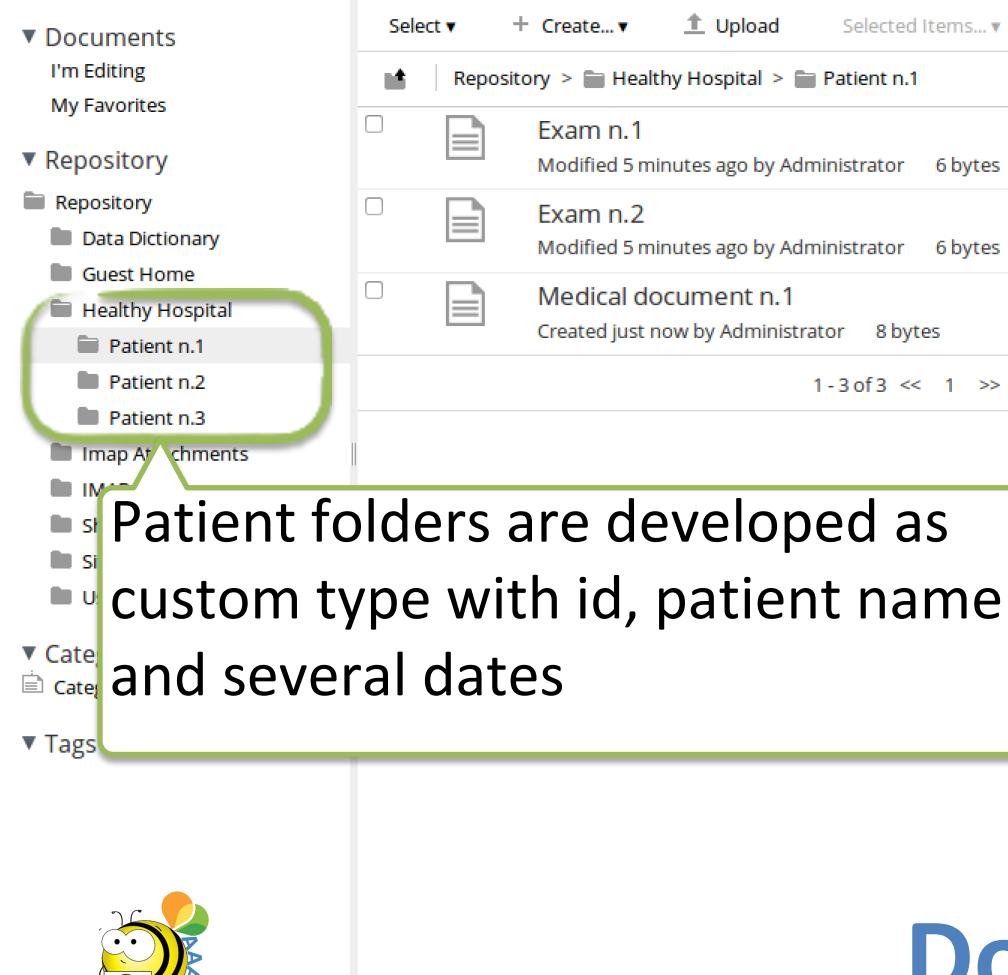
▼ Documents
I'm Editing
My Favorites

▼ Repository
Repository
Data Dictionary
Guest Home
Healthy Hospital
Patient n.1
Patient n.2
Patient n.3

Imap Attachments
IMAP
s...
S...
U...

▼ Categories
Category

▼ Tags



The screenshot shows the Alfresco interface with a sidebar on the left containing 'Documents', 'Repository' (with 'Healthy Hospital' expanded), 'Categories', and 'Tags'. A green circle highlights the 'Patient n.1' folder under 'Healthy Hospital'. The main area displays a list of documents: 'Exam n.1' (modified 5 minutes ago by Administrator, 6 bytes), 'Exam n.2' (modified 5 minutes ago by Administrator, 6 bytes), and 'Medical document n.1' (created just now by Administrator, 8 bytes). The path 'Repository > Healthy Hospital > Patient n.1' is shown above the list. Navigation controls 'Select', '+ Create...', 'Upload', and 'Selected Items...' are at the top.

Patient folders are developed as custom type with id, patient name and several dates



Use case n.2 - Patients

- ▼ Documents
 - I'm Editing
 - My Favorites
- ▼ Repository
 - Repository
 - Data Dictionary
 - Guest Home
 - Healthy Hospital
 - Patient n.1
 - Patient n.2
 - Patient n.3
 - Imap Attachments
 - IMAP Home
 - Shared
 - Sites
 - User Homes
- ▼ Categories
 - Category Root
- ▼ Tags

Select ▾ + Create... ▾ Selected Items... ▾

Repository > Healthy Hospital >

<input type="checkbox"/> Exam n.1	Modified 5 minutes ago by Administrator	6 bytes
<input type="checkbox"/> Exam n.2	Modified 5 minutes ago by Administrator	6 bytes
<input type="checkbox"/> Medical document n.1		

Exams are stored together with custom properties about type, dates of execution, etc.



Use case n.2 - Patients

- ▼ Documents
 - I'm Editing
 - My Favorites
- ▼ Repository
 - Repository
 - Data Dictionary
 - Guest Home
 - Healthy Hospital
 - Patient n.1
 - Patient n.2
 - Patient n.3
 - Imap Attachments
 - IMAP Home
 - Shared
 - Sites
 - User Homes
- ▼ Categories
 - Category Root
- ▼ Tags



Select ▾ + Create... ▾ Selected Items... ▾

Repository > Healthy Hospital > Patient n.1

- Exam n.1
Modified 5 minutes ago by Administrator 6 bytes
- Exam n.2
Modified 5 minutes ago by Administrator 6 bytes
- Medical document n.1
Created just now by Administrator 8 bytes

1 - 3 of 3 << 1 >>

Medicals contains information about type and quantity and date



Doctor Frank



- [Home](#)
- [**1. Configure**](#)
- [**2. Install**](#)
- [**3. Use**](#)
- [**Customize**](#)
- [About](#)

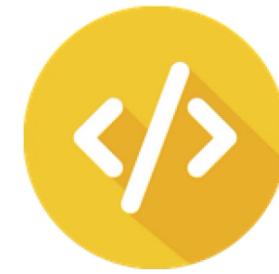
Alfresco installations Custom types and aspects Publishing customizations

Instance Default Alfresco instance

Type Folder types

Class uc2:patient

Property cm:name (d:text)
cm:name (d:text)
uc2:id (d:text)
uc2:name (d:text)



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Declaring A.A.A.R. setup of custom properties





Object browser

Sequences (11)

Tables (40)

dm_custom_meta

dm_dim_actions

dm_dim_alfresco

dm_dim_dates

dm_dim_documents

dm_dim_documents_uc2_exams

dm_dim_folders

dm_dim_folders_uc2_patient

dm_dim_hours

dm_dim_mime_t

dm_dim_minute

dm_dim_months

dm_dim_node_t

dm_dim_paths

dm_dim_users

dm_dim_workflow_definitions

dm_dim_workflow_instances

dm_dim_workflow_items

Tables with custom types
for documents

Tables with custom
types for folders

Properties

Statistics

Dependencies

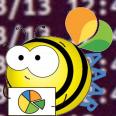


SQL pane

aaar@aaar: ~/biserver-ce/pentaho-solutions/system/AAAR/endpoints/kettle/script

2016/03/13 12:47:49 - Init workflow instances staging - Starting entry [Get workflow instances]
2016/03/13 12:47:49 - Get workflow instances - Dispatching started for transformation [Get workflow instances]
2016/03/13 12:47:49 - stg_workflow_instances.0 - Connected to database [AAAR_DataMart] (commit=1000)
2016/03/13 12:47:49 - cfgbuilder - Warning: The configuration parameter [org] is not supported by the default configuration
builder for scheme: sftp
2016/03/13 12:47:49 - Load file content in memory.0 - Finished processing (I=1, O=0, R=1, W=0, U=0, E=0)
2016/03/13 12:47:49 - Modified Java Script Value.0 - Optimization level set to 0.
2016/03/13 12:47:49 - Modified Java Script Value.0 - Finished processing (I=0, O=0, R=1, W=0, U=0, E=0)
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [Get workflow instances] (result=[true])
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [HTTP] (result=[true])
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [jsonPath] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Starting entry [Init workflow active instances]
2016/03/13 12:47:49 - Init workflow instances staging - Starting entry [jsonPath]
2016/03/13 12:47:49 - Init workflow instances staging - Starting entry [HTTP]
2016/03/13 12:47:49 - HTTP - Start of HTTP job entry.
2016/03/13 12:47:49 - HTTP - Connecting to URL: http://localhost:8080/alfresco/service/api/workflow-instances?state=active
2016/03/13 12:47:49 - HTTP - Resource type: application/json; charset=UTF-8, last modified on: Thu Jan 01 01:00:00 CET 1970.
2016/03/13 12:47:49 - HTTP - Finished writing 35 bytes to result file [/tmp/AAAR_AlfrescoWorkflowInstances_1.json]
2016/03/13 12:47:49 - Init workflow instances staging - Starting entry [Get workflow instances]
2016/03/13 12:47:49 - Get workflow instances - Dispatching started for transformation [Get workflow instances]
2016/03/13 12:47:49 - stg_workflow_instances.0 - Connected to database [AAAR_DataMart] (commit=1000)
2016/03/13 12:47:49 - cfgbuilder - Warning: The configuration parameter [org] is not supported by the default configuration
builder for scheme: sftp
2016/03/13 12:47:49 - Load file content in memory.0 - Finished processing (I=1, O=0, R=0, W=1, U=0, E=0)
2016/03/13 12:47:49 - Modified Java Script Value.0 - Optimization level set to 0.
2016/03/13 12:47:49 - Modified Java Script Value.0 - Finished processing (I=0, O=0, R=1, W=0, U=0, E=0)
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [Get workflow instances] (result=[true])
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [HTTP] (result=[true])
2016/03/13 12:47:49 - Init workflow instances staging - Finished job entry [jsonPath] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Starting entry [Evaluate rows number in stg_workflow_instances]
2016/03/13 12:47:49 - Init workflows staging - Starting entry [Success]
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Success] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Evaluate rows number in stg_workflow_instances] (result=[
true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Init workflow active instances] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Init workflow completed] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Init workflow definitions] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Clean workflow] (result=[true])
2016/03/13 12:47:49 - Init workflows staging - Finished job entry [Get alfresco connection params] (result=[true])
2016/03/13 12:47:49 - Get workflows - Starting entry [Init workflow operational]
2016/03/13 12:47:49 - Get workflows - Starting entry [Init workflow data mart]
2016/03/13 12:47:49 - Init workflow data mart - Starting entry [Dimension workflows update]
2016/03/13 12:47:50 - Dimension workflows update - Dispatching started for transformation [Dimension workflows update]

A.A.A.R. extract



< > 1 / 1 |

Output Type

- PDF
- HTML (Paginated)
- HTML (Single Page)
- PDF
- Excel

Excel 2007

- Comma Separated Value
- Rich-Text-Format
- Text

Submit

Use case n.2 - Resulting report



Details about patients

Exams list per patient

John Smith

Type	Date of exams
electrocardiogram	2016-03-19
electrocardiogram	2016-03-19

Jack Black

Type	Date of exams
electrocardiogram	2016-03-19

BILL White

Type	Date of exams
electrocardiogram	2016-03-19



Data Mart integration



Patients

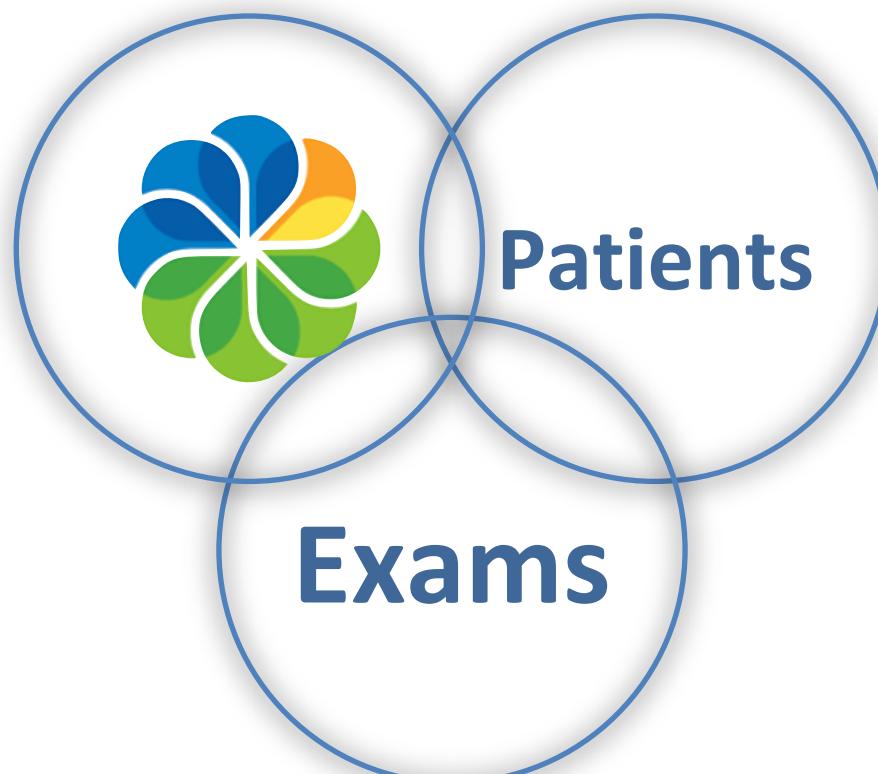
Exams



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Data Mart integration



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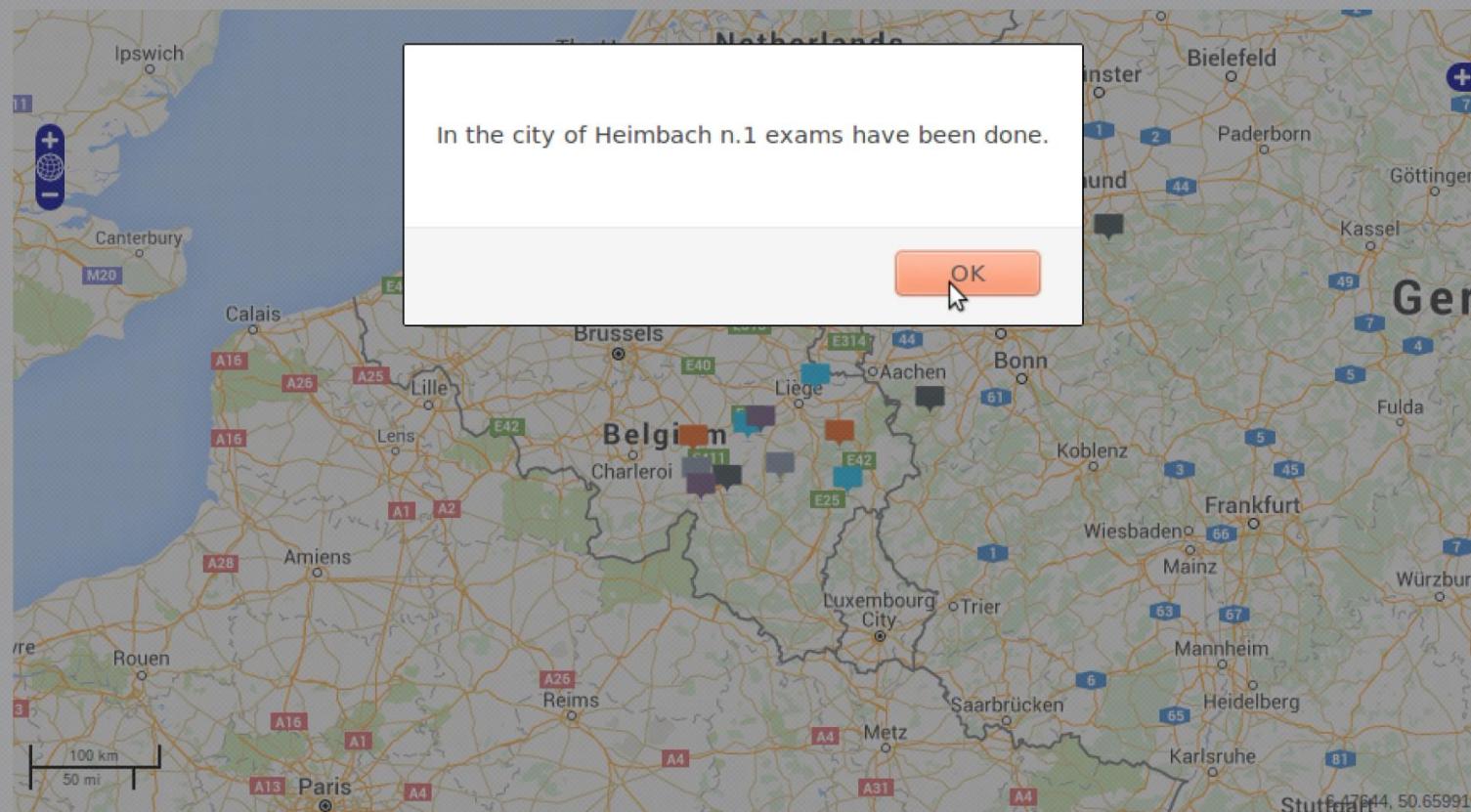
Geolocation of the patients per exams

2016-03-21 > 2016-03-28

diabetes

In the city of Heimbach n.1 exams have been done.

OK





Geolocation of the patients per exams

2016-03-21 > 2016-03-28

diabetes





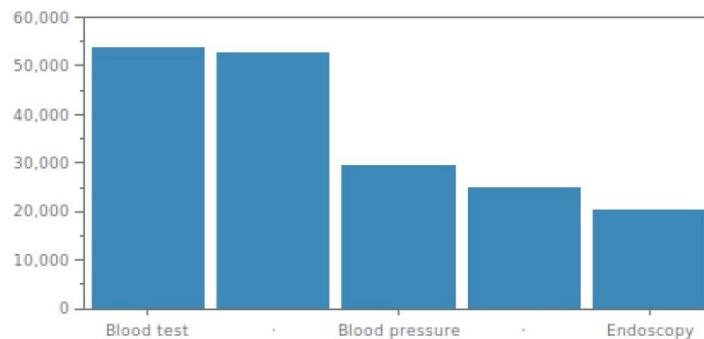
Cost analysis

Exams

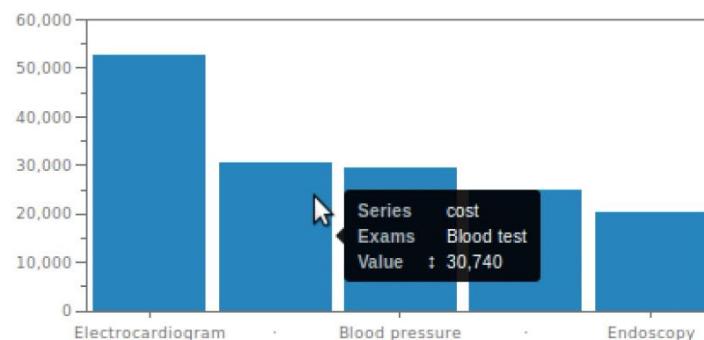
exams	number	cost
Blood test	1537	53795
Electrocardiogram	527	52700
Blood pressure	1966	29490
Heart ultrasound	184	24840
Endoscopy	104	20384

Medicals

medical	number	cost
Cardio power	5325	63900
Aspirin	10465	52325
Forever heart	4399	35192
Calendulin	7544	30176
Hawthorn	3425	20550



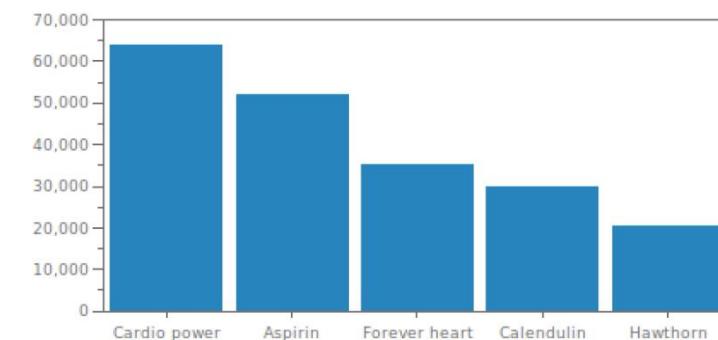
exams	number	cost	variation
Electrocardiogram	527	52700	0.0 %
Blood test	1537	30740	-12.7 %
Blood pressure	1966	29490	0.0 %
Heart ultrasound	184	24840	0.0 %
Endoscopy	104	20384	0.0 %



What-if analysis on exams

Blood test:	<input type="text" value="20"/>
Electrocardiogram:	<input type="text" value="100"/>
Blood pressure:	<input type="text" value="15"/>
Heart ultrasound:	<input type="text" value="135"/>
Endoscopy:	<input type="text" value="196"/>

medicals	number	cost	variation
Cardio power	5325	60900	0.0 %
Aspirin	10465	52325	0.0 %
Forever heart	4399	35192	0.0 %
Calendulin	7544	30176	0.0 %
Hawthorn	3425	20550	0.0 %



What-if analysis on medicals

Cardio power:	<input type="text" value="12"/>
Aspirin:	<input type="text" value="5"/>
Forever heart:	<input type="text" value="8"/>
Calendulin:	<input type="text" value="4"/>
Hawthorn:	<input type="text" value="6"/>



From... To...

Data

Information

Strategic
information

Strategy



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Being more general

Audit/Repository/workflows/ Custom properties

+

Business Intelligence



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Being more general

Content Entities

+

Business Intelligence



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Being more general

Content Entities

+

Business Intelligence



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This is...

Content Intelligence



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Content Intelligence

with



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Content Intelligence

with



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Do you want to give it a try?

Content Intelligence

with



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Do you want to give it a try?

Content Intelligence

on Alfresco with A.A.A.R. hands on



Room: Terra
Time: 14:30

...and bring you laptop with you!



f corti@gmail.com



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