Collaborating with Alfresco Engineering, Round 2

BeeCon 2017

Alfresco®

make business flow™
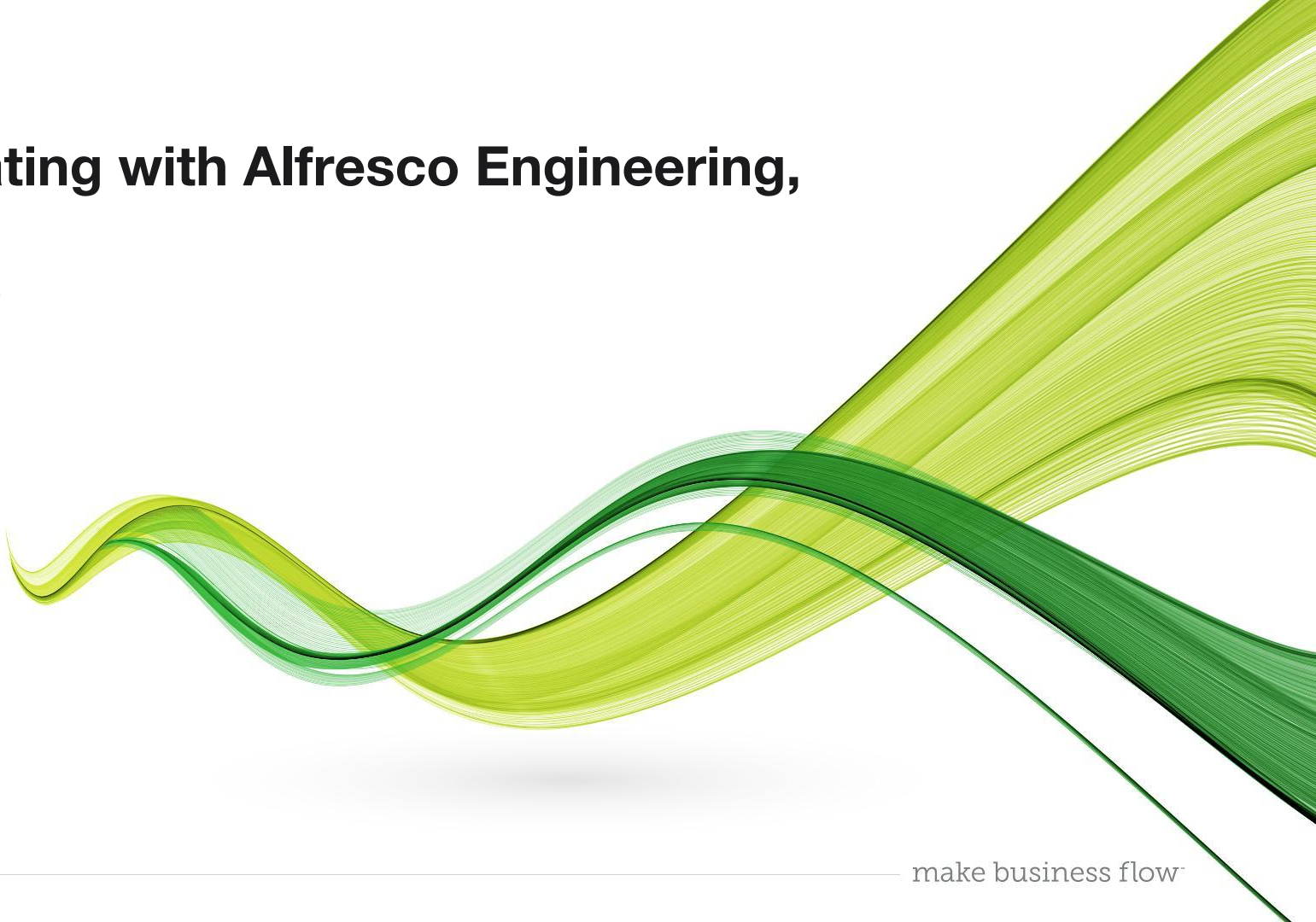
Agenda

Recap from last year

What we have accomplished

Efforts currently underway

Discussion and Q&A

TL;DR

We didn't accomplish as much as we hoped.

But we made some fundamental progress.

Panel: Contributing to Alfresco

Panel: Boriss Mejias, Richard Esplin, Thomas De Meo, Mark Heath,
	John Sotiropoulos

Topics Raised:
- Why doesn't Alfresco take more contributions?
- Why do issue reports sit for so long?
- Why don't engineers spend more time collaborating with the open source community?

Goals Set:
- Contribution guidelines
- Respond to ALF issues
- Increased prioritization of open source collaboration

Accomplishments

Thank you for the work you already do

Localization efforts

Add-ons

Early access testing and feedback

Blog posts

BeeCon

Project Pages

Each open source project has a page in the Alfresco social community.

Each project can have own procedures, policies, and governance.

Project Overview: Repository

Like • 1   Comment • 4

Document created by **Richard Esplin** on Oct 2, 2016 • Last modified by **Richard Esplin** on Mar 13, 2017   Version 8

Purpose and Scope

The Content Repository is the core of Alfresco Content Services. The innovative features of the Alfresco Content Repository will establish best practices for easy to use document and content management that will make Alfresco Content Services the most widely adopted ECM system in the industry.

The commercial offering of Alfresco Content Services is built on top of the open source Alfresco Community Edition code base. The differentiation strategy for the two products is outlined in these blog posts:

- Applying the Open Core Model in Alfresco 5.1
- Our Commitment to a Strong Open Source Product
- Building a stronger open source product

The open source Alfresco Community Edition is intended for use in non-critical environments. It is best suited for developers and technical enthusiasts who are willing to self-support and don't required the additional enterprise-class features offered by Alfresco Content Services (formerly known as Alfresco Enterprise Edition). Customers of Alfresco who are entitled to the commercial offerings of Alfresco Content Services are able to access the source code of the proprietary product. The documentation and community issue tracking is the same between the commercial and open source products, but we recommend that issues related to the commercial products be raised through Alfresco support so that they can be prioritized and tracked appropriately.

The Alfresco Community Edition product is a collection of multiple open source projects that are also managed in this space.

As of the release of Alfresco Community Edition 5.1, integration with Microsoft Office applications is done using the proprietary Alfresco Office Services (AOS) module. We include AOS in Alfresco Community Edition as an optional proprietary module so that most users can benefit, but those who want a pure open source platform are not required to use it.

Documentation

http://docs.alfresco.com

Artifacts

Community Edition:

- Community Edition file lists

https://community.alfresco.com/docs/DOC-6385-project-overview-repository

Alfresco®   make business flow

Clarification on requirement for Contribution License Agreements (CLAs)

Internal uncertainty and inconsistency around when CLAs are required slowed engineering efforts to accept contributions.
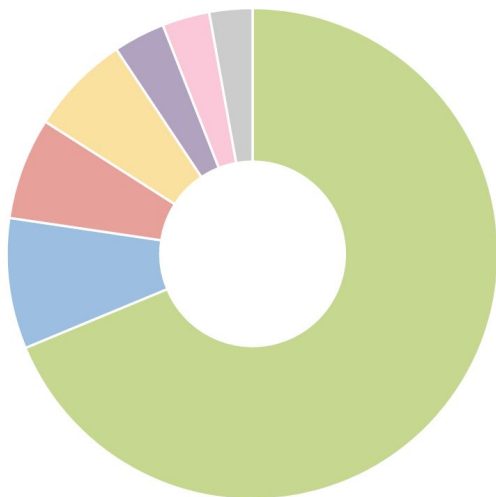
We now understand that every contribution needs a CLA, and we have a better manual process for collecting them.

Next step: automated process for collecting CLAs.

ALF Triage

Cleaned up old issues
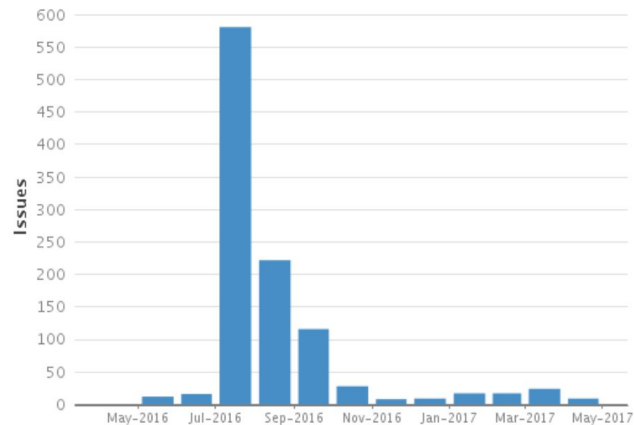

Pie Chart: ALF - Issues Resolved in Last 12 Months

Resolution
Total Issues: 1059

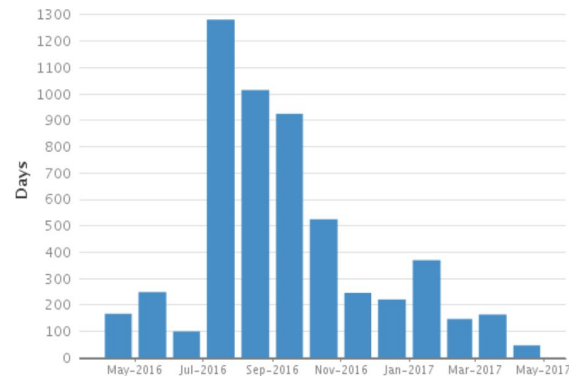|		
Won't Fix		728
Deferred		91
Not a bug		71
Fixed		70
Won't Do		36
Duplicate		33
Cannot Reproduce		30

Time Since Chart: ALF - Issues Resolved in Last 12 Months

Total Issues: 1059   Field: **Updated**   Filter: **ALF - Issues Resolved in Last 12 Months**

Period: last **365** days (grouped **Monthly**)

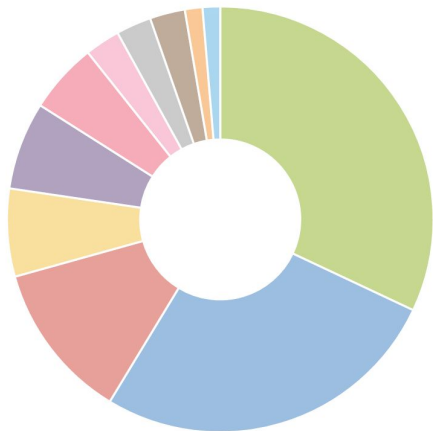Resolution Time: ALF - Issues Resolved in Last 12 Months

This chart shows the average number of days that resolved issues were open for over a given period.

Period: last **365** days (grouped **Monthly**)

We fixed a lot of stuff

Fix For Versions (all)
Total Issues: **70**

Community Edition 201609 EA		24
Unscheduled		20
5.2		9
5.1		5
Community Edition 201605 GA		5
4.2 Enterprise		2
Community Edition 201612 GA		2
Community Edition 201701 GA		2
4.0 Enterprise		1
Community Edition 201602 GA		1
Other...		4

Two Dimensional Filter Statistics: ALF - Issues Resolved in Last 12 Months with Links to Other Issues

Issue Type	Fixed	Won't Fix	Deferred	Duplicate	Cannot Reproduce	Not a bug	Won't Do	T:
Bug	33	76	6	21	6	6	8	156
Improvement	5	95	7	4	0	2	4	117
Requirement	0	5	17	0	0	1	0	23
Task	0	12	3	0	0	0	0	15
Information	0	3	0	1	0	0	0	4
Story	0	2	1	1	0	0	0	4
Contribution	0	3	0	0	0	0	0	3
Documentation	1	0	0	1	0	0	1	3
Feature Set	0	0	2	0	0	0	0	2
Linguistic Bug	0	2	0	0	0	0	0	2
Total Unique Issues:	**39**	**201**	**36**	**28**	**6**	**9**	**13**	**332**

Even more in other projects

| Project	Unresolved	Fixed	Won't Fix	Duplicate	Cannot Reproduce	Not a bug	T:
Alfresco One Platform	11	16	3	1	1	5	37
DOCS	5	4	0	0	0	0	9
Total Unique Issues:	16	20	3	1	1	5	46

Two Dimensional Filter Statistics: ALF - Other Projects with "Community" in the ACT Field

Project	Unresolved	Fixed	Won't Fix	Duplicate	Cannot Reproduce	Not a bug	Done	Won't Do	T:
Service Packs and Hot Fixes	5	8	2	0	2	2	0	0	19
Alfresco One Platform	9	3	1	1	0	3	0	0	17
Repository	10	1	1	0	1	2	2	0	17
Share Application	9	0	0	1	0	0	1	1	12
Aikau	1	0	0	0	0	0	0	0	1
DOCS	0	1	0	0	0	0	0	0	1
Dev Platform	1	0	0	0	0	0	0	0	1
Records Management	1	0	0	0	0	0	0	0	1
Total Unique Issues:	36	13	4	2	3	7	3	1	69

Things are going better since the clean up
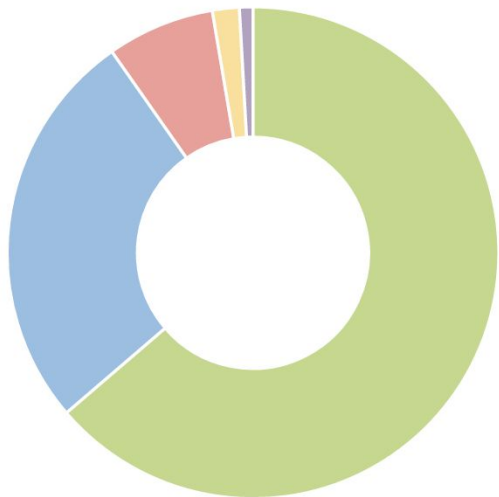
Triage
Total Issues: **113**

🟩	None	72
🟦	ACE	30
🟥	To Do	8
🟨	Won't Fix	2
🟪	MNT	1
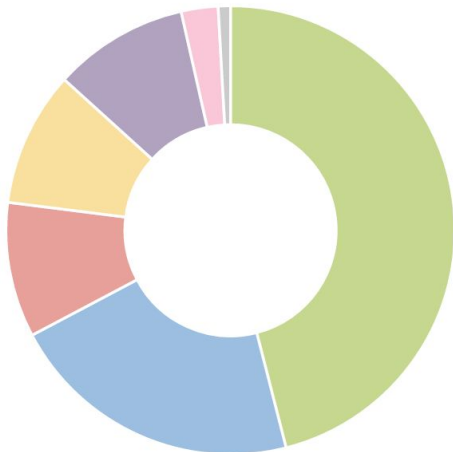
Resolution
Total Issues: **113**

🟩	Unresolved	52
🟦	Not a bug	24
🟥	Cannot Reproduce	11
🟨	Duplicate	11
🟪	Fixed	11
🟪	Won't Fix	3
⬜	Won't Do	1

Created vs Resolved Chart: ALF - Issues Created Since 1st October 2016

Issues in the last 150 days (grouped monthly)
View in Issue Navigator

⭕ Created issues (92)
🟢 Resolved issues (53)

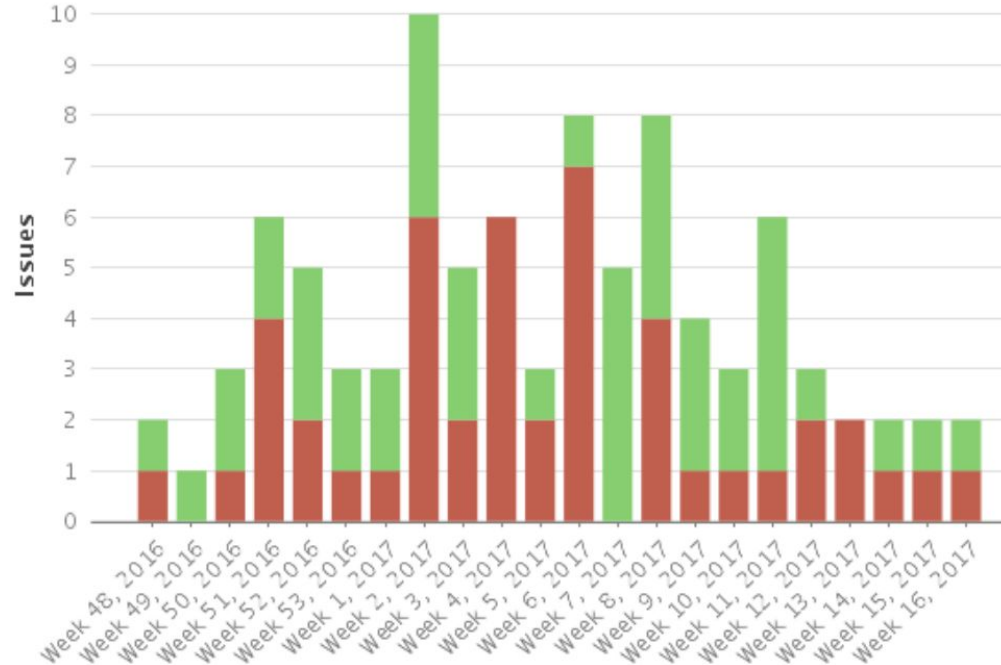# The process is working

About 10 new issues a week

.75 employee days/week in triage

Goal of triage:
    Make the issue actionable,
    or close it.

Some issues require a long time
to figure out how to proceed.

Recently Created Chart: ALF - Issues Created Since 1st October 2016

Total Issues: 92

Period: last **150** days (grouped **Weekly**)

Current Projects

Migration from SVN to Git

Open source projects:
     GitHub.com/Alfresco

Internal projects:
     GitLab at git.alfresco.com

Projects Moved:

- Records Management
- alfresco-core
- data-model

Migration from SVN to Git

Accomplished:
- Internal development can overlay proprietary and open source repositories
- Have a model for migrating branches and tags so we can support existing product
- Can accept pull requests at GitHub

Outstanding questions and tasks:
- How much history can be moved?
  – We want the repo under 4GB
- How will we make the entire history available?
- Need a single project to integrate all the components.
- Close the current GitHub community-edition repo.

TAS: Test Automation Service

Provides automated integration and functional testing.
- Significantly reduced cost of testing the 5.2 release.
- Built completely with open source technologies.
- Internal consensus for releasing the tool has been achieved.

In order to hit release goals, we need to improve the system before we can spend effort releasing the code.

Future efforts:
- Make architectural improvements.
- Perform code review and migrate to GitHub for public release.
- Decide how TAS tests should be related to contribution requirements.

Architecture Map

A published subset of our internal proprietary architecture map.
- Will describe the existing components of our open source projects.
- Currently only a couple of public pages.

Hosted in a public GitHub project:
- https://github.com/Alfresco/arch-map
- Public, but copyrighted and not for redistribution.

Remaining tasks for collaboration:
- Implement process to overlay proprietary and public architecture maps.
- Receive feedback on the usefulness.
- With your help, document more!

Alfresco Map

You've found the GitHub repository that houses the technical documentation that describes the architecture of Alfresco.

Map Organization

Subsystems

© 2017 Alfresco Software Inc. all rights reserved
Generated from PlantUML
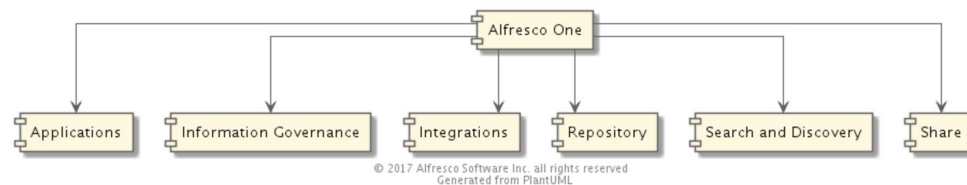
The Map is organized into six Subsystems. Each Subsystem has a page where you'll find an overview and a list of Articles. Each Article is a page describing one Component of the Subsystem. For example, the *Share* Subsystem is described in this page and that Subsystem contains a number of Components such as the *Share Application* Component here and the *Web Quick Start* Component here.

System Components

- Applications
- Information Governance
- Integrations
- Repository
- Search and Discovery
- Share

Contribute to the Map

The Architecture Map is a work in progress. So don't be surprised by missing pages. If you are interested in filling in these gaps by contributing to the Map, see The Contributor Guide.

Note: The public Architecture Map repository only contains descriptions of components that are part of the Community version.

melahn Initialization

..

📁 resource/sequence   Initialization

📄 README.md   Initialization

📖 **README.md**

Component Name

| Document Level | In Progress |

| Version | 5.2 |

Purpose

Overview

Artifacts and Guidance

- Source Code Link:m https://svn.alfresco.com/repos/alfresco-enterprise/alfresco/
- License: LGPL
- Issue Tracker Link: https://issues.alfresco.com/jira/secure/RapidBoard.jspa?projectKey=REPO& useStoredSettings=true&rapidView=379
- Documentation Link: http://docs.alfresco.com/5.1/concepts/versioning.html
- Contribution Model: Alfresco publishes the source code and will review proposed patch requests

Prerequisite Knowledge

Design

Component Model

Data Model

Data Dictionary

Flows

This is a series of flows illustrating when versions are created, based on changes to content and metadata.

No Autoversion on Property Updates

Suppose the defaults in the *cm:versionable* aspect are set as follows:

```
version.store.enableAutoVersioning=true
version.store.enableAutoVersionOnUpdateProps=false
```

Note this is the default case when Alfresco is installed.

Autoversion on Content Update – Versioning Flow
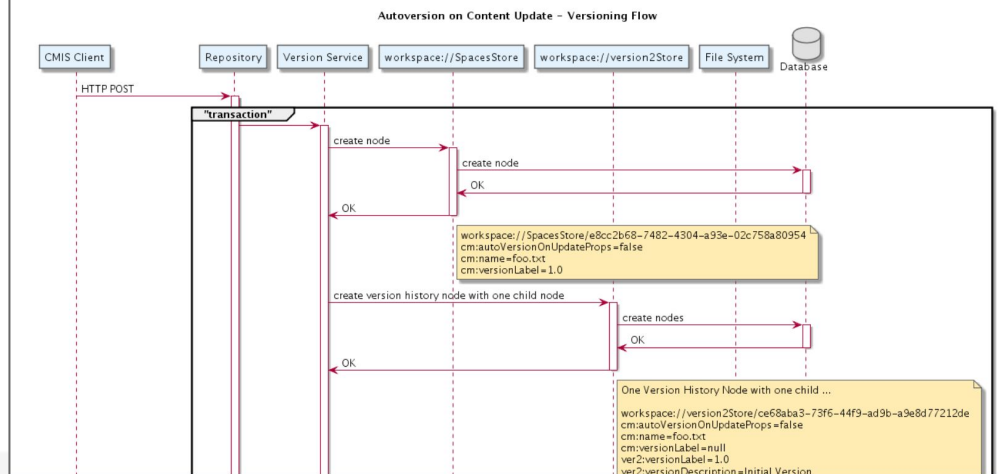
Current prioritization of future projects

- Complete migration to Git
- Release TAS
- Complete the Architecture Map ← a good place to contribute
- Automated collection of Contribution License Agreements
- Continuous Integration / Automated Testing on public GitHub pull requests
- Document contribution standards and policies

Discussion