



Yo SDK 3

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TL;DR;

Command line tools for creating All-In-One SDK projects and for performing common tasks in these projects.

- Node, Yeoman, Generators; Alfresco SDK 2.x-3.0.1

```
# install node: >=4.5, <= 8

npm install -g yo generator-alfresco # install global packages

mkdir new_project_dir ; cd new_project_dir
yo alfresco # create SDK 3 AIO project here
yo alfresco:amp-add-common # add 3rd party AMPs like JS Console
yo alfresco:module-add-source # source projects

yo alfresco --help # discover sub-generators

yo alfresco:action # scaffold repo action in source project
yo alfresco:behavior # scaffold behavior in repo source project
yo alfresco:model # scaffold model in repo source project
yo alfresco:webscript # scaffold webscripts in repo source project

./run.sh # start it all up
```

Agenda

- Justification
- Progress
- Demo
- What's next?



On-boarding new Engineer

New engineer struggles to create basic customizations (like WebScripts and custom content models) because of obscure file locations, naming conventions for files and number of files that must be created/edited.

- Document what needs to be created...
- ...or just create the stuff!

Getting the right things done

Developer finds it difficult to find authoritative information about best practices for building customizations.

- Document best practices...
- ...or just automate them!
 - we are opinionated and open to better alternatives

Customer engagement

Need to bring together a number of customizations (some bespoke and some common) for customer implementations.

- Support implementation projects
- Provide consistency between projects

Zia Alfresco Quickstart

Our proprietary (much improved) version of the 1.x SDK was not easy to support (small team) or maintain (SDK changed often in incompatible ways).

- Augment SDK rather than extending it
- Open-source / community project

Project quality is very important

Community
matters!

Code of Conduct
Contribution
Guidelines
Issue and PR
templates
Apache 2.0 License
Gitter

Continuous
Integration

618+ tests
5 versions of
Node

~ 15 people
participating

Development,
error reporting/
debugging,
documentation,
feature requests

> 50 projects
managed?

It's an educated
guess

Justification In Summary

- Easy for beginners
 - e.g. integrated documentation (in generators and generated files)
 - e.g. help with common tasks (actions, behaviors, models, webscripts, adding modules)
- Powerful enough for experts
 - e.g. should be easy to automate (CLI options)
 - e.g. expose as much as possible (WebScripts, Models)



Progress

- Common AMPs
 - Alfresco Office Services
 - Alfresco Support Tools (integrated into 5.2)
 - Developer Helper
 - **JavaScript Console**
 - JScript Extensions
 - JavaMelody
 - **Order of the Bee - Support Tools**
 - Records Management
 - Share Inbound Calendar Invites
 - Share Site Announcements
 - Share Site Creators
 - Share Space Templates
 - Uploader Plus
 - Xenit Care4Alf
 - Xenit Dynamic Extensions



Progress

- Common AMPs (cont)
 - Support Repo and/or Share components
 - SDK version and edition aware
- Support SDK 2.0 through 3.0.1
- Embedded archetypes
 - No network required for most generators
 - Much faster tests



Progress

- Split out common code
 - Maven, Spring, Tomcat, Archetypes
 - Create your own yeoman generators
 - Improves test performance
- Remove node 0.10 and 0.12, add 7 & 8
 - Forced by our dependencies
 - Modernizing our JavaScript code
- Lots more tests and better Travis CI integration



Demo



What's next?

- More extension points
 - Bootstrap, Dashlet, JS Root Object, Module Extension, Dynamic Extensions, Jobs, Workflows, etc.
- Generate integration tests
- Enhance existing extensions
 - Integrate policy selection into behavior generator
 - Model generator to configure Share
- More test coverage of existing code
- More collaborators get more done and respond to changes in the ecosystem faster



What might be next?

- Annotation driven extensions?
- Automate JRebel / hotswap-agent integration?
- Alfresco involvement?
- Your involvement?





Thank you!

All your sys:base's are belong to us!