



FOLIO/ERM

FOLIO Days Göttingen - Background and Progress Update
Ian Ibbotson, 2018-04-267

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Background / Context

Audience Interests and Goals

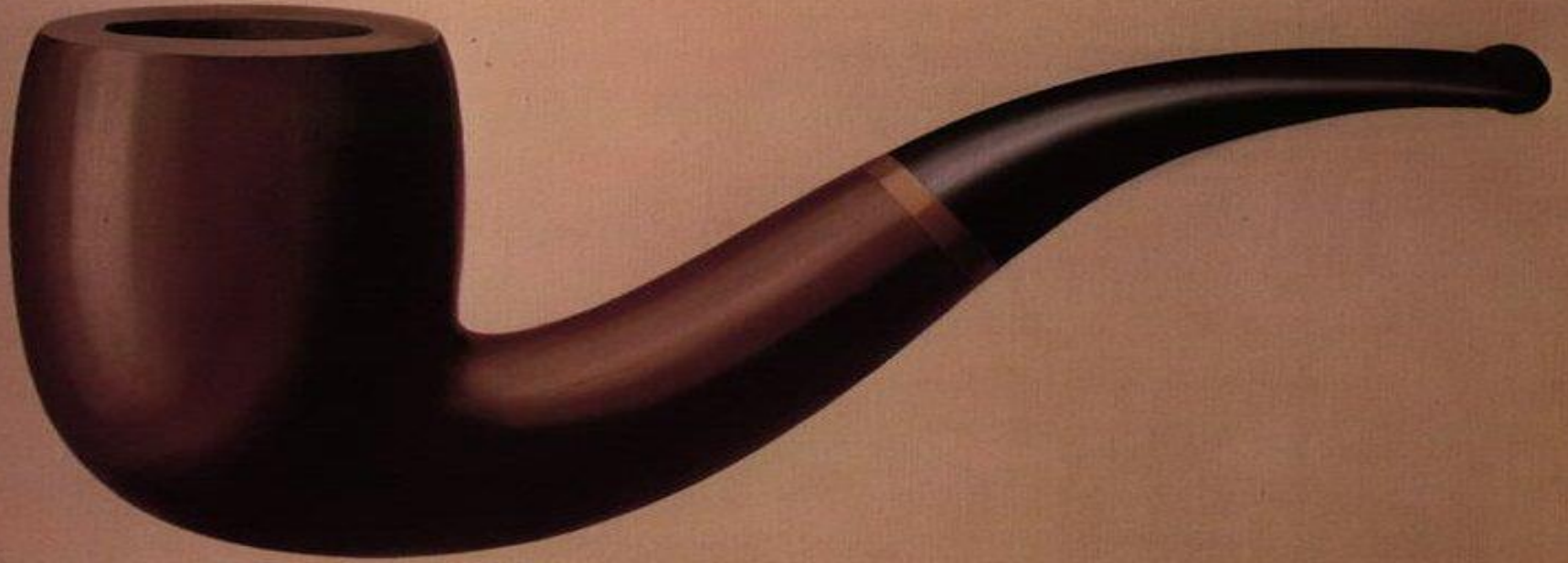
- **General FOLIO?**

- Should we focus on the platform, it's aims and affordances?
- Or on the specifics of ERM?

- **ERM Context?**

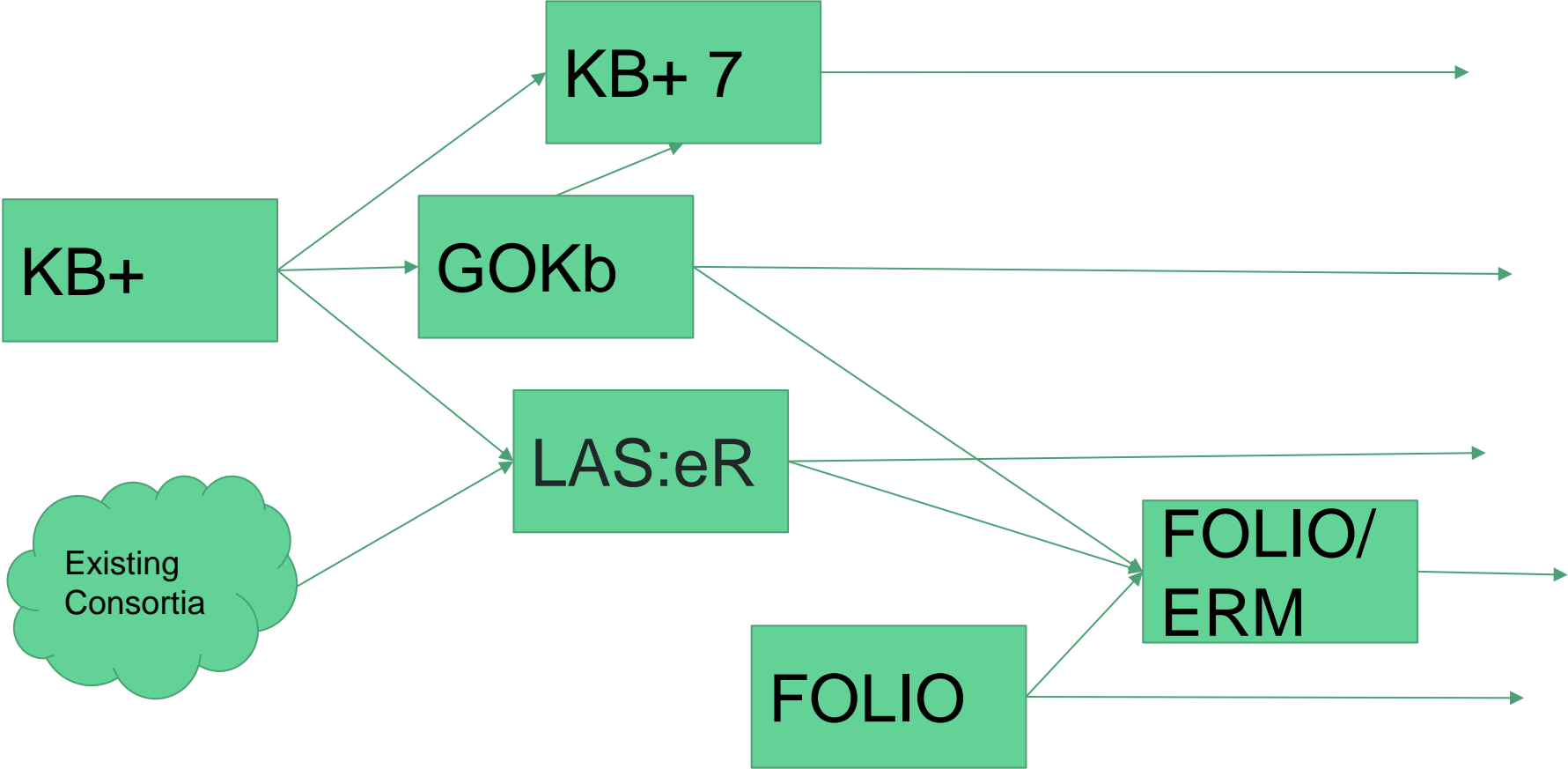
- Do we need to talk about the problems faced by eResource librarians
- Any specific interests or concerns?

Source : <https://i.pinimg.com/originals/9c/02/37/9c023779a215a8e1f3db0e70e2644571.jpg>



Ceci n'est pas une pipe.

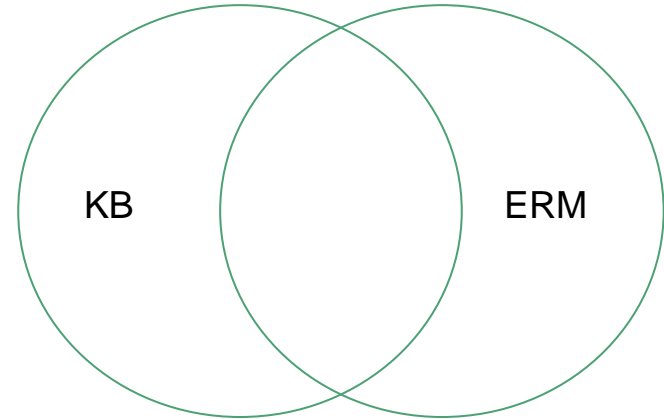
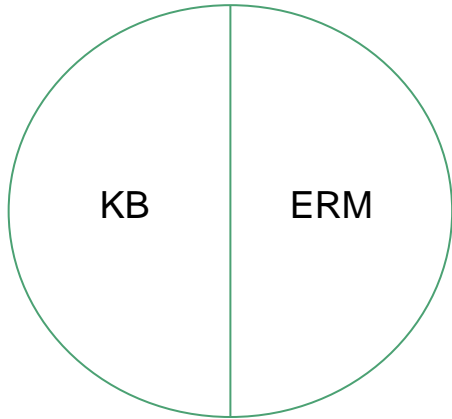
How many grapes went into the wine....



Some terminology

- KB / Knowledge base - generic computing term with library specific meaning. Here we are taking this to mean the “Publications Knowledge Base” - a shared understanding or model of what (Title, Coverage) is being published, by whom, on what platform and how it is packaged up for sale by vendors. The focus of the KB is “Packages and Titles (With Coverage)”
- ERM - we are taking this to mean the information about what MY institution thinks it has bought or has access to (Titles and Coverage), from whom, on what platform, for how long and under what conditions. The focus of the ERM is Agreements which relate of a list of titles with some access and coverage, on a platform, to a license. Agreements may be subscriptions, but could represent other things like Hathi Trust collections.

Terminology (2)



Why a [FOLIO based] ERM (Causes)

- The problems faced by eResource librarians extend well beyond keeping a list of what packages have been bought and what they contain.
- **(KB View: Centering the problem on the vendor)** Mismatch between the title/package tracking provided by vendor KBs, and the tracking / audit / cyclical tasks undertaken by libraries as customers. **This mismatch causes much use of spreadsheets as a mechanism to cross system boundaries.**
- [Honest] There is concern about the extent to which vendor managed knowledge bases reflect what was bought vs what the current provision is.
- [Generous] *There is a perceived lack of transparency* about what was bought and what is provided, and vendor managed KBs do not always add clarity.
- Some issues caused by vendor induced fragmentation in ERM space (KB

Why-2 (Questions from KB+ / LAS:eR / KB+ 7)

Some questions kept coming up:

- Can you list all the titles we buy multiple different ways? -- A concern that we were being sold the same thing many times in different ways
- Can you help with our renewals process
 - Generating our big spreadsheets
 - List me all the agreements coming to a close in the next 2 months
- Can we link usage data to provide informed decisions (Spreadsheet linking) -
-
- <http://bit.ly/ERMRenew>

Why KB+ / LAS:eR / KB+ 7 (Approaches)

- Introduce the “Subscription Agreement” and “Issue Entitlement” (Agreement Line Item) concepts into the domain model. Essentially modelling the institutional “Side” of the ERM problem and a compliment/reciprocal to Package/Title.
- Separate out coverage from IE, allowing PCA and Subscription coverage discriminators, and PCA to be described in package/agreement
- Allow connection/attachment of a “License” to the Subscription.
- We can now link from title details to license properties.
- Allow analysis and interpretation of license terms, and link to titles.
- Subscriptions allow renewals workflows to be modelled and tracked

Approaches (Experimental)

- Introducing variables into package or agreement descriptions :
\${SubEndDate}
- Use of tag-like mechanism to track “Core” status or “Class” of item
- Package/Agreement level coverage statements to express PCA rules for different classes within the package
- Track moving core status for PCA purposes.
 - Programmatically generate coverage based on explicit statements and PCA policy

Why FOLIO/ERM - What's wrong with what we have?

- Each of the existing solutions live as a Silo, and ultimately have the same problem as their predecessor systems - use of spreadsheets and other transient files as a lingua franca to move between KB, Finance, Link Resolver, Discovery and other systems.
- KB+, LAS:eR, GOKb all have “just enough” requirements to justify being a service in their own right, but all need to have standard functions and deep connections to other systems.
- We have tried to address this problem with interoperability and standards, and that has been successful to some extent
- But it has not led to a more integrated or smooth user experience, and we still move files around -a lot-.

How does FOLIO help address this?

- FOLIO provides an integrated but loosely coupled environment with shared infrastructure like authentication, authorization, reporting, usage stats, ...
- So we don't have to build “Foundational” infrastructure like authentication for each app, and can focus on the actual problem the app is intended to address.
- Which means we can focus on each app “Doing one job well”, but can integrate and coordinate at a system level to make (For example) an ERM talk to KB, Finance, Discovery, Link Resolver, Notes, Workflow, etc.

Approach Taken...

- Originally, we were going to build the ERM solution outside FOLIO, but with the intention of integrating eventually.
- This approach would reduce the dependency upon the FOLIO environment that all the tools and widgets needed would be available within the project timescale.
- But this approach also introduces the risk that we might develop in a direction not compatible with FOLIO.
- So the revised approach was to accept the risk introduced by the dependency, but work collaboratively with FOLIO from the outset.
- It was felt that close working relationships would mitigate any risk introduced by FOLIO being “In Development”

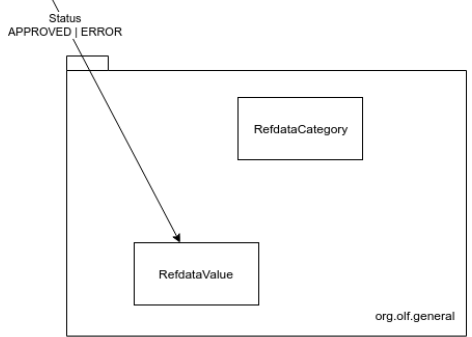
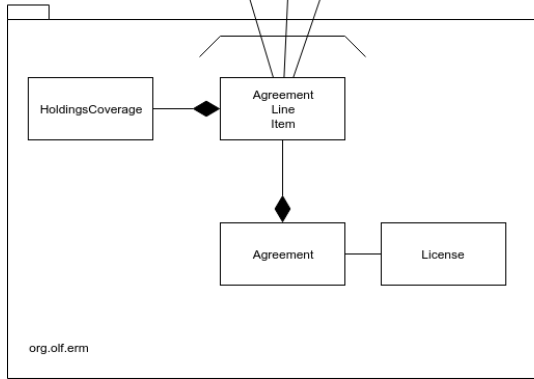
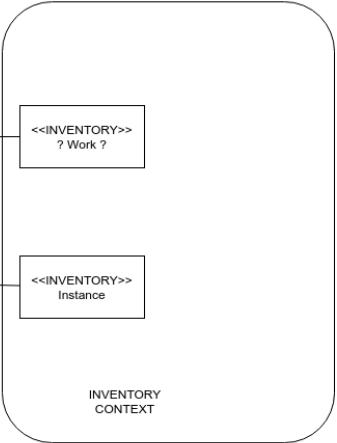
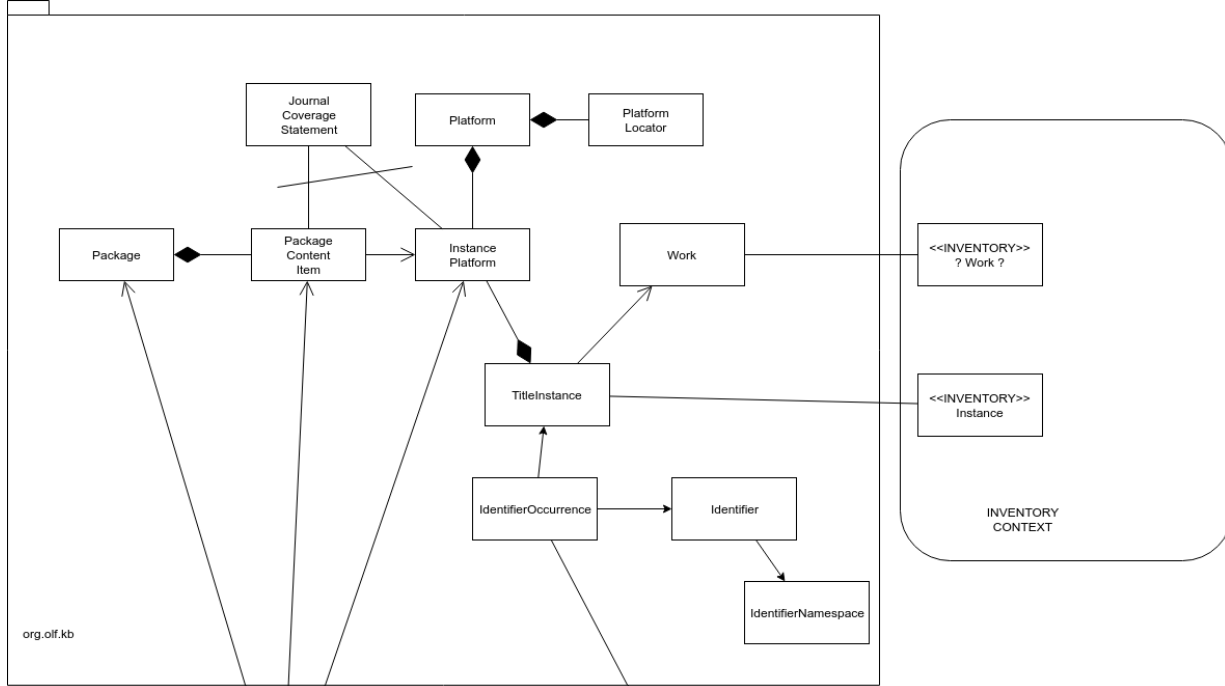
Work to date

- Workshops - Including the kick-off meeting.
- Initial domain modelling and implementation
- Gathering test data, defining file formats
- Prototyping in FOLIO environment, understanding where conflicts are likely to occur.
- Backlog Development

Domain Model Walkthrough

Major evolutions from existing models

- Agreements not Subscriptions
- Agreement Line Items (Not IssueEntitlements) can be Packages, Package items, or explicit “PlatformInstances”
 - An agreement can just name a package and automatically accept the vendor view of the world (Essentially vendor KB solution)
 - An agreement can closely track the titles in a package, but maintain “My” definitive list
 - An agreement can consist of entirely bespoke titles which have no link to a package.
- Coverage Statements are separate to title list entries (unlike KBART)
 - to allow for multiple coverage statements, coverage gaps, and to remove the assumption that resources will always have coverage - ebooks and other material types. Allow description of PCA rights at Package/Agreement level



Data...

Major Data Sources

- Package Data / KB Data

- Raw KBART files?
 - A staple of the community for a long while
 - Necessary but not sufficient for the kind of ERM we would like to build
- Processed by intermediary data curators / Consortia
 - Like -- KB+ / GOKb /
 - Rich “Header” information - package curator, dates, licenses, consortia, provider, availability
 - Codified PCA and other parameters controlling access
 - Easily structured multiple coverage statements
 - Better support for describing alternate item types
 - Clearer semantics around sibling instance identifiers (print_identifier, electronic_identifier)

```
{
  header: {
    - availability: {
      type: "general"
    },
    - packageProvider: {
      name: "American Psychological Association"
    },
    packageSource: "kbplus",
    packageName: "American Psychological Association:Master",
    startDate: "2014-01-01T00:00:00Z",
    endDate: "2100-01-01T00:00:00Z",
    packageSlug: "american_psychological_association_american_psychological_association_master",
    _internalId: 1062,
  },
  - packageContents: [
    - {
      title: "Journal of Experimental Psychology: Learning, Memory, and Cognition",
      instanceMedium: "electronic",
      instanceMedia: "journal",
      - instanceIdentifiers: [
        - {
          namespace: "eissn",
          value: "1939-1285",
        },
        - {
          namespace: "jusp",
          value: "5499",
        },
      ],
      - siblingInstanceIdentifiers: [
        - {
          namespace: "issn",
          value: "0278-7393",
        }
      ],
      - coverage: {
        startVolume: "8",
        startIssue: "1",
        startDate: "1982-01-01",
        endVolume: null,
        endIssue: null,
        endDate: null,
      },
      embargo: null,
      coverageDepth: "fulltext",
      coverageNote: "previously: Journal of Experimental Psychology: Human Learning and Memory (0096-1515) 1975-1981; Journal of Experimental Psychology (0022-1015) 1916-1974",
      platformUrl: "http://content.apa.org/journals/xlm",
      platformName: "APA PsycNet",
      _platformId: 565,
    },
    - {
      title: "Journal of Abnormal Psychology",
    }
  ]
}
```

Agreement Data

- For FOLIO integration tests
- To bootstrap / migrate users
- To allow us to explore renewals workflows before we explore new agreements.
- More complex than packages
 - Package, Package Item and Platform-Title agreement line items
 - Licenses
 - Other properties

http://bit.ly/folio_erm_agg1

INVENTED TESTDATA:: University of DIKU - ACM Digital Library 2017-2019 (Collection) - Google Sheets - Chromium

M Steve Osg x M Inbox (14 x F FOLIO x Home - BB x FOLIO/ERM x how to ma x G define:con x KB+ x F FOLIO x openlibrary x Bitly | Bitlir x INVENTED x

Secure https://docs.google.com/spreadsheets/d/1HVEUZK1yevZcj7TbxUixfA59Z1vg-XoYH72Dgnr1YgQ/edit#gid=0

Apps New Tab Bootstrap Drag SmokePing Lat Cancelling buil Does it Really bis-13-1368-cc CMU Sphinx Schedule stree select SOLVED: Lapt eaul KB+ a



INVENTED TESTDATA:: University of DIKU - ACM Digital Library 2017-2019 (Collection)

File Edit View Insert Format Data Tools Add-ons Help Last edit was made on 4 April by Annika Domin



SHARE



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fx Rowtype

	A	B	C	D	E	F	G
15							
16	Section	AgreementLicense					
17	SectionHeader	LicenseTitle	VendorReference				
18							
19							
20	Section	PackageTracking					
21	SectionHeader	Authority	AuthorityReference	TrackingDate			
22		GOKb.GBV	ACM_Digital_Library_2017_2019	2018-01-01			
23							
24	Section	AgreementJournalHoldings					
25	SectionHeader	Title	siblinginstance.identifier.issn	instance.identifier.issn	FromPackage	Medium	Media
26		3C ON-LINE	1078-2192	1558-1128	ACM_Digital_Library_2017_2019	Electronic	Journal
27		ACM Communications in Computer Alge	1932-2232	1932-2240	ACM_Digital_Library_2017_2019	Electronic	Journal
28		ACM Computing Surveys	0360-0300	1557-7341	ACM_Digital_Library_2017_2019	Electronic	Journal
29		ACM Inroads	2153-2184	2153-2192	ACM_Digital_Library_2017_2019	Electronic	Journal
30		ACM Journal of Computer Documentatio	1527-6805	1557-9441	ACM_Digital_Library_2017_2019	Electronic	Journal
31		ACM Journal on Emerging Technologies	1550-4832	1550-4840	ACM_Digital_Library_2017_2019	Electronic	Journal
32		ACM Letters on Programming Language	1057-4514	1557-7384	ACM_Digital_Library_2017_2019	Electronic	Journal
33		ACM SIGAPL APL Quote Quad	0163-6006	1558-3392	ACM_Digital_Library_2017_2019	Electronic	Journal
34		ACM SIGAPP Applied Computing Devic	1558-8015	1031-0161	ACM_Digital_Library_2017_2019	Electronic	Journal

+ Sheet1

Towards iteration 1 - Landing Page?

KB+

 Dashboard
Jisc Collections

Profile Organisation Log Out 

 Dashboard

 Institution

 Data Manager

 Admin

 Licences

 Subscriptions

 Titles

 Packages

 Finance

Select Institution

Please select your institution

Jisc Collections ▼

Subscriptions

You currently have 140 Subscriptions associated



Add



Compare

Licences

You currently have 279 active Licences



Add



Export



Compare

Search your account

Use the search below to see any aspect of your account



Enter your search term...

Recently edited Subscriptions

SAGE (to test)

Last edited: 2018-04-19

BMJ

Last edited: 2018-04-10

Unset: Generated by import

Last edited: 2018-04-05

Recently edited Licences

Copy of Cambridge University Press/Jisc Collections/Cambridge Companions Online, Shakespeare Survey Online, Orlando and Stahl Agreement /2018-2019(Content to be added)

Last edited: 2018-04-18

Copy of Georg Thieme Verlag/Jisc Collections/Journals/2018(Data to be added)

Last edited: 2018-04-18

Titles

You currently have 15586 active titles



Export

Packages

There currently are 2016 active packages


11 02:32 PM

Total changes 1937

Subscription 1025 - ScienceDirect NFS1 | 2012-2014

coming renewals (0)

Example of great current practice::
Jisc Collections KB+ Dashboard

 Support

Mismatches with FOLIO we are exploring...

- 4 levels of nesting, panel layouts, navigation
 - Seen in other areas such as invoice line items, innovative solutions and extensions
- More complex search form and facet lists
- “Dashboard” layouts
- Separation into Apps - granularity
 - Similar issues seen with eHoldings, amplified here
 - ERM (Agreements, Agreement Line Items, Packages,)
 - Licenses
- Subscription Agreement domain entity - different to eHoldings

ERM Dashboard

Agreements

You have **12** [current agreements](#).

Workflows you can launch from here:

- Create a new empty agreement and add content later
- Search packages and create a draft, trial or live agreement

Upcoming Renewals

No agreements ending within 8 weeks
[Click here to update settings.](#)

Recently Edited Agreements

Subscribed Content

Your current agreements provide access to 36455 individual electronic resources.

Quick Search:

Content Issues

There are currently no reported issues accessing electronic content. The world is happy.

Packages

You are currently selecting titles from 23 packages

Licenses

Your Licenses

Recently Edited Licenses

Summary

The decision to work in FOLIO from the start

- We have to deliver an ERM - adding a new platform into the problem space is adding a variable:: Our concern about platform maturity has not been an issue at all
- Environment is modern and easy for developers
 - Some disclaimers for the ERM team here - We're off reservation in some of our tooling (like eHolding and finance to some extent tho, and this is a positive)
- Documentation is readily available and easy to follow
- Managing test instances can be slightly challenging
- The fully running system requires some resource (But what do you expect for a functional library services platform)

Velocity

- Our current velocity GOOD
- Platform is not causing friction
- Implemented full domain model - with requirements to date
- Implemented functional package import (KB+)
- Implemented “Ziffer” application
- Implemented example “Agreements” list and search
- Implemented example dash
- Implemented CODEX interface to provide subscribed content search

Upcoming

- **Development Path (Steve leading)**

- Backlog agreed
- Start work on backlog issues
- Explore “Subscribed Content” search
 - Agreement, Package, Title, Coverage, Core/PCA in one line
- More work on deployment (folio.k-int.com)
- Expand work to development team

- **Exploratory Path (Ian leading)**

- Explore Workflow issues in more detail
- Explore Finance link issues in more detail
- Explore eHoldings link in more detail

Overall

- Platform has supported development with very minimal friction. Compared to RICE velocity is good. Loose coupling major factor.
- Platform does have some idiomatic requirements that developers can find tight.
- Design constraints much bigger factor than technical constraints
- Very likely that decision to work in FOLIO from the outset was correct if eventual goal is full participation in FOLIO ecosystem of apps.
- Community engagement extremely good.
- High confidence of delivery.

Followup Channels

ERM Subgroup Wiki

<https://wiki.folio.org/display/RM/ERM+Sub+Group>

RM Discuss

<https://discuss.folio.org/c/sigs/rm>

Questions

Thankyou

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