2014-01-09 - Fedora Committer Meeting

Time/Place

This meeting is a hybrid teleconference and IRC chat. Anyone is welcome to join...here's the info:

- Time: 11:00am Eastern Daylight Time US (UTC-4)
- ReadyTalk:
  - U.S.A/Canada toll free: 866-740-1260, participant code: 2257295
  - International toll free:
    - http://www.readytalk.com/intl
    - Use the above link and input 2257295 and the country you are calling from to get your country's toll-free dial-in number
    - Once on the call, enter participant code 2257295
- IRC:
  - Join the #duraspace-ff chat room via Freenode Web IRC (enter a unique nick)
  - Or point your IRC client to #duraspace-ff on irc.freenode.net

Attendees

- Stefano Cossu
- Unknown User (escowles@ucsd.edu)
- Greg Jansen⭐
- Michael Durbin
- Ed Fugikawa
- Osman Din
- Chris Beer
- A. Soroka
- Eric James
- Andrew Woods

Agenda

1. Art Institute of Chicago use case
   a. Expose primary-type via F4 API?
2. Hydra Connect plans
   a. See Hydra Connect 2014 Agenda.
3. OSGi update

Minutes

Primary Types in JCR and RDF: Art Institute of Chicago use case

AIC content modelling - want to specify primary type

Stefano provides background

- Fedora is the most promising system for their needs
- originally looked at F3, appealing feature is content model validation
- many million assets to manage
- eventually want to publish linked data w/SPARQL endpoint, points to F4
- JCR's ability to model content appeals, close to object oriented design, classes of content
- JCR types are not perfect, many limitations
  - useful for implementing policies by type
  - useful for restricting fields
- leveraging JCR validation may be shortest path, already implemented, curious about F4 plans in this area
- goal at AIC is to implement by mid 2014 or second half of 2014

Andrew

- we have expressed philosophical reluctance to exposing the underlying platform
- keeping Fedora-level as the abstract, no dependencies on JCR
- we are already significantly invested in ModeShape and JCR, so it seems like we just have to find right level of abstraction
- content modelling is something we've started working on, but this is an extension of what we have already done

Stefano - primary type is part of JCR spec

Chris - RDF has no notion of primary type, so this will create mixed notions

Adam - RDF has no way of distinguishing primary type as a type

Esme - We are already muddying this water by exposing existing primary types as rdf:type

Stefano - an argument on node creation would suffice to set initial primary type, this would avoid any problems in RDF update work flow, since RDF updates would never include primary type

Adam

- we could offer a type triple with an object which is primary type
- would also allow us to publish the type in RDF with distinction
- only one triple of primary type would be allowed
- lack of a primary type would imply nt:folder (i.e. normal fedora object creation)
- haven't thought through it beyond creation...

Stefano - creation would fail if mandatory field not provided

Adam - we have no way to express the primary type as distinct to the rest of the world in RDF

Andrew - queries would include several rdf:type triples and one of those would be primary type

Adam - you could discover the difference by following links

Chris - what is the use case again?

Andrew - mixin cannot be restrictive of fields

Stefano - mixins can only add functionality or data, one use case is preventing any children

Chris - sounds like validation

Stefano - restrictions are more useful for data modelling

Adam - people have been asking for this for years

Chris (in IRC) - raises issues of interoperability between Islandora and Hydra heads.. (paraphrased)

> *awoods: you have an islandora app running against fcrepo4 that uses primary types to declare things are islandorabjects or whatever*
> *cbeer: 08:35] cbeer> and islandorabject nodes require a couple different properties*
> *cbeer: 08:35] cbeer> this means you can't drop in a hydra app on top of that fcrepo4 repo*
> *cbeer: 08:35] cbeer> and have it operate against those islandora nodes natively*
> *cbeer: 08:36] cbeer> and that's something you can do in fcrepo3, because no type validation is preventing that*

Stefano - ready to help implement and very committed to Fedora 4 work

Primary type discussion to continue on the list..

HydraConnect conference plans

Andrew

- Chris, Esme, and Andrew will be attending. Would like to discuss plans for the 2-3 sessions where Fedora will be part of focus.
- Wants to meet later to come up with a game plan..
- To meet Tuesday 2pm EST discussion of conference plans
- hopefully the conference program will be more clear

OSGi

Andrew

- the problem: integrate my jar with fedora, without building fedora
- being prototyped in the JMS indexer project
    - conveniently plug in a custom indexer as a module

Adam - good summary

Andrew

- JMS indexer currently deploys into servlet container, but doesn't use HTTP features
- no reason not to switch that into an OSGi container

Adam clarifies container meaning

- standalone java application, we wrote the main class, uses OSGi framework internally
- it is a limited container process that we wrote, with an embedded OSGi framework
- we are not presently starting up a JBOSS or equivalent

Andrew

- bundles in a directory get loaded into OSGi framework
- someone who creates a plugin service will include dependencies - simplifying measure for now

Adam

- give them a maven archetype to start from
- or let them manage the bundle content explicitly
- offer a construct or practice that makes it easy
- transitive dependencies are a feature of container products (dependencies between bundles) - however framework does not offer that..

New Actions

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