

2016-03-17 - Fedora Tech 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)
 - Dial-in Number: (712) 775-7035
 - Participant Code: 479307#
 - International numbers: [Conference Call Information](#)
 - Web Access: <https://www.freeconferencecallhd.com/wp-content/themes/responsive/flashphone/flash-phone.php>
 - IRC:
 - Join the #fcrepo chat room via Freenode Web IRC (enter a unique nick)
 - Or point your IRC client to #fcrepo on irc.freenode.net

Attendees

- A. Soroka
 - Jared Whiklo
 - Unknown User (acoburn)
 - Kevin S. Clarke
 - Bethany Seeger
 - Nick Ruest 
 - Yinlin Chen

Agenda

1. Discuss the current use and implementation of IdentifierConverters
 2. Consider the use of Akka for sync operations
 3. 4.5.1 Release Planning - when is code freeze?
 4. Bugs are beginning to pile up

5. Fedora Specification updates
 - a. Messaging SPI
 - b. Atomic Batch Operations - name? BatchOps? Bag-o'-Ops? OpSack? AtomicOp?
 - c. CRUD
 - d. Resource Versioning
 - e. Binary Fixity Checking
 - f. Authorization
 6. ...
 7. Status of "in-flight" tickets

Ticket Summaries

- ## 1. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

2. Tickets resolved this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

3. Tickets created this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Minutes

- IdentifierConverters:
 - The actual implementation, how we provide that service.
 - Now it is based on a Guava concept, and what we want is not exactly what it is providing. We should get rid of that and implement exactly what we want.
 - It will be a challenge because it is all throughout the code, and the longer it goes, the worse it gets
 - The recent move to Java8 (iterators to streams), provides a lot of opportunity to cleanup and make the code base smaller
 - What are the convertors? Just a mapping from one world to another world
 - Example: Reference to fedora objects (info:fedora/ then the path)
 - If you change the hostname, you don't need to change everything
 - How to implement? Have an interface that has two function; to, and from
 - Guava problem? Syntax vs Semantics -- it's not clear how the "semantics" gets represented
 - How to move forward? A. Soroka will pull to []
 - [] (coburn) will open a ticket:
 - configuration.
 - [] lange!
- Akka:
 - What is it? JVM implementation of the [actor model](#); Highly concurrent, possibly distributed operations
 - Other option is thread pools (sharing states and resources between threads is ugly)
 - It's a big step, programming model is different and unfamiliar
 - Where does it make sense? Things that are async, background jobs
 - fixity checking, modify an object (JMS events)
 - Before we really kick the tires on Akka, we should identify a couple other use cases
 - Should be easier to move forward on this than working on IdentifierConverters
- 4.5.1 Release planning
 - Do we want []
 - A.5.1
 - []
 - merged, and in
 - []
 - - A. Soroka will take care of
 - []
 - When is code freeze? After we take care of the above, so March 25, 2016
- Feelings
- Specification updates
 - Please read them all, and provide feedback!
 - Messaging SPI
 - Specifying data that comes out but not the format
 - We should support all sorts of messaging protocols
 - We don't specify a serialization
 - We specify a serialization, or a mandatory serialization
 - Use rdf - specify the semantics, not syntax
- fcrepo java client

- [Unknown User \(acoburn\)](#) says it is ready, and should be released!
 - [Nick Ruest](#) and [Unknown User \(acoburn\)](#) will figure out how to release it next week
- Java8 Stream API
 - How to become more familiar with it?
 - There places in the code that need some refactoring, and could be a good place to get some experience
 - [Unknown User \(acoburn\)](#) can point out some good places
 - [Unknown User \(acoburn\)](#) and [A. Soroka](#) would be good resources to help
 - [rbaci](#) is a good place to start (all the for loops!)
 - [fedora/modeshape impl](#) (that could thrown into Akka too)