

# 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 async operations
3. 4.5.1 Release Planning - when is code freeze?
4. Bugs are beginning to pile up

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
-----	---------	------	---------	---------	-----	----------	----------	----------	--------	------------

Unable to locate Jira server for this macro. It may be due to Application Link configuration.

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

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
-----	---------	------	---------	---------	-----	----------	----------	----------	--------	------------

Unable to locate Jira server for this macro. It may be due to Application Link configuration.

## Ticket Summaries

1. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
-----	---------	------	---------	---------	-----	----------	----------	----------	--------	------------

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
-----	---------	------	---------	---------	-----	----------	----------	----------	--------	------------

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
-----	---------	------	---------	---------	-----	----------	----------	----------	--------	------------

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 converters? 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 "sameness" gets represented
- How to move forward? [A. Soroka](#) will pull to

◦ [A. Soroka](#) will open a ticket: configuration.

Unable to locate Jira server for this macro. It may be due to Application Link

◦ change!

## 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 merged, and in

4.5.1

◦ Unable to locate Jira server for this macro. It may be due to Application Link configuration.

- [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
    - [rbac1](#) is a good place to start (all the for loops!)
    - [fedora/modeshape impl](#) (that could throw into Akka too)