2018-05-24 - Fedora Tech Meeting

Time/Place

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

- Time: 11:00am Eastern Daylight Time US (UTC-4)
- Audio/Video Conference Link: https://duraspace.zoom.us/my/fedora
  - Dial-in: +1 408 638 0968
  - +1 646 876 9923
  - +1 669 900 6833
  - Meeting ID: 812 835 3771
- Join fedora-project.slack.com on the "tech" channel

Attendee

- Jared Whiklo
- Bethany Seeger
- Peter Eichman 🌟
- Carrick Rogers
- Kevin Ford
- Michael Durbin
- David Wilcox
- Joshua Westgard
- Doron Shalvi
- Aaron Birkland
- Andrew Woods
- Ben Pennell

Agenda

1. Feedback on /fr:fixity endpoint
   a. Fedora API Specification github issue
2. Getting to 5.0
   a. Review of work that happened this week:
      i. External content (proxy, copy, and redirect) - PR merged, there are a few issues relating to it that are low hanging fruit.

<table>
<thead>
<tr>
<th>Key</th>
<th>Summary</th>
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<th>Created</th>
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<th>Due</th>
<th>Assignee</th>
<th>Reporter</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FCREP O-2902</td>
<td>External Content Code Change to getSize</td>
<td></td>
<td>May 18, 2018</td>
<td>Oct 01, 2018</td>
<td>Ben Pennell</td>
<td>Bethany Seeger</td>
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<tr>
<td>FCREP O-2801</td>
<td>Section 3.9: Ensure External Content responses include correct &quot;constrained By&quot; information</td>
<td></td>
<td>May 16, 2018</td>
<td>Oct 01, 2018</td>
<td>Bethany Seeger</td>
<td>Bethany Seeger</td>
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<tr>
<td>FCREP O-2797</td>
<td>Split out External Content FedoraLdptIT tests into own file</td>
<td></td>
<td>May 11, 2018</td>
<td>Oct 01, 2018</td>
<td>Ben Pennell</td>
<td>Bethany Seeger</td>
<td></td>
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<td>CLi</td>
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</tbody>
</table>
2. a.
   i. Fix External Content
      Fivly test in LocalFileBina ryIT
      May 10, Oct 01, 2018
      Ben Pennell Bethany Seeger

   b. Align external content documentatio n with the API Spec
      Apr 25, Oct 01, 2018
      Ben Pennell Danny Bernstein

   c. Section 3.9: Ensure that HEAD and GET to External Content Contain Required Headers
      Apr 09, Oct 01, 2018
      Longshou Situ Danny Bernstein

3. b. 5.x Documentation Effort
   i. 5.x Documentation Updates matrix
   ii. Another sprint?
   iii. Timeframe/Duration/Availability
   iv. Ecosystem tools dependent on the release:
      i. import export tool
      ii. camel tool kit
      iii. fcrepo4-vagrant
      iv. java client
      v. api-x

   3. FCREPO-2604 - Assure that messages are emitted when required by the spec : [CLOSED]
      a. Are we comfortable with messages emitted?

   4. Progress Report on Fcrepo-Cloud-Migrator Tool
      a. variants in .ttl between the python export and ruby-rdf

Ticket Summaries

1. Please squash a bug!
<table>
<thead>
<tr>
<th>#</th>
<th>Issue Type</th>
<th>Description</th>
<th>Created</th>
<th>Updated</th>
<th>Assigned To</th>
<th>Resolved By</th>
<th>Status</th>
<th>Resolution</th>
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</thead>
<tbody>
<tr>
<td>FCREP O-3244</td>
<td>Responses triples should reference URIs and not internal IDs</td>
<td>Mar 09, 2020 Mar 09, 2020 Unassigned Peter Winckles</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3243</td>
<td>Fix concurrency issue when creating persistence sessions</td>
<td>Mar 09, 2020 Mar 09, 2020 Unassigned Peter Winckles</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3238</td>
<td>Address naming collisions for .fcrepo files</td>
<td>Feb 20, 2020 Feb 21, 2020 Unassigned Peter Winckles</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3234</td>
<td>PaxExam update needed to support Maven's HTTPS requirement</td>
<td>Feb 20, 2020 Feb 20, 2020 Unassigned Jared Whiklo</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3145</td>
<td>Fix migration-util inline XML migration to not transform XML en route</td>
<td>Nov 25, 2019 Mar 02, 2020 Andrew Woods Scott Prater</td>
<td>OPEN</td>
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<tr>
<td>FCREP O-3140</td>
<td>Implement disambiguation pattern for OCFL file naming collisions</td>
<td>Nov 21, 2019 Mar 20, 2020 Unassigned Jared Whiklo</td>
<td>OPEN</td>
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<tr>
<td>FCREP O-3139</td>
<td>Design a disambiguation pattern for the OCFL filenaming</td>
<td>Nov 21, 2019 Apr 03, 2020 Unassigned Jared Whiklo</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3138</td>
<td>Test HTTP -&gt; Service layer</td>
<td>Nov 21, 2019 Nov 22, 2019 Unassigned Jared Whiklo</td>
<td>RECEIVED</td>
<td>Unresolved</td>
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<td>FCREP O-3114</td>
<td>Unauthorized users can delete child resources</td>
<td>Nov 07, 2019 Nov 07, 2019 Unassigned Danny Bernstein</td>
<td>RECEIVED</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3070</td>
<td>Creating external binary with bad URI and digest blows up</td>
<td>Sep 24, 2019 Sep 24, 2019 Unassigned Ben Pennell</td>
<td>OPEN</td>
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<tr>
<td>FCREP O-3037</td>
<td>Prefer header ‘omit’ containing ‘PreferMinima</td>
<td>Container’ URL not honored</td>
<td>Sep 06, 2019 Nov 22, 2019 Unassigned Bethany Seeger</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREP O-3022</td>
<td>Intermittent build failure</td>
<td>Jul 15, 2019 Jul 16, 2019 Unassigned Aaron Birkland</td>
<td>OPEN</td>
<td>Unresolved</td>
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1. Tickets resolved this week:

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<tr>
<td>FCREPO-3005</td>
<td>GET and PUT on resource/fcr: metadata/fcr: acl and resource/fcr: versions/fcr: acl return 400</td>
<td>June 06, 2019</td>
<td>June 06, 2019</td>
<td>Danny Bernstein</td>
<td>Danny Bernstein</td>
<td>OPEN</td>
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<tr>
<td>FCREPO-3003</td>
<td>JSON-LD representation of rdf:Lists is incorrect</td>
<td>June 03, 2019</td>
<td>June 03, 2019</td>
<td>Unassigned</td>
<td>Jared Whiklo</td>
<td>OPEN</td>
<td>Unresolved</td>
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<tr>
<td>FCREPO-2998</td>
<td>Potential issue with namespace registry</td>
<td>May 22, 2019</td>
<td>Jun 21, 2019</td>
<td>Bethany Seeger</td>
<td>Anna Dabrowski</td>
<td>OPEN</td>
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Showing 20 out of 66 issues

2. Tickets created this week:

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<tbody>
<tr>
<td>FCREPO-3268</td>
<td>Rebuild does not succeed for Binary resources</td>
<td>Apr 02, 2020</td>
<td>Apr 04, 2020</td>
<td>Jared Whiklo</td>
<td>Andrew Woods</td>
<td>IN REVIEW</td>
<td>Ready for Test</td>
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<tr>
<td>FCREPO-3263</td>
<td>NonRdfSource descriptions are missing headers</td>
<td>Apr 01, 2020</td>
<td>Apr 02, 2020</td>
<td>Jared Whiklo</td>
<td>Jared Whiklo</td>
<td>CLOSED</td>
<td>Fixed</td>
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<td>FCREPO-3259</td>
<td>User provided RDF does not get the correct subject</td>
<td>Mar 26, 2020</td>
<td>Mar 31, 2020</td>
<td>Andrew Woods</td>
<td>Jared Whiklo</td>
<td>CLOSED</td>
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<tr>
<td>FCREPO-3254</td>
<td>Replace String resource IDs with new FedoraID class</td>
<td>Mar 19, 2020</td>
<td>Apr 04, 2020</td>
<td>Jared Whiklo</td>
<td>Andrew Woods</td>
<td>IN REVIEW</td>
<td>Ready for Test</td>
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<tr>
<td>FCREPO-3246</td>
<td>Cannot create binary resources with content types claimed by RDF sources</td>
<td>Mar 10, 2020</td>
<td>Apr 02, 2020</td>
<td>Jared Whiklo</td>
<td>Peter Winckles</td>
<td>IN REVIEW</td>
<td>Ready for Test</td>
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5 issues

3. Tickets created this week:

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<tbody>
<tr>
<td>FCREPO-3269</td>
<td>NonRdfSource descriptions are missing triples</td>
<td>Apr 02, 2020</td>
<td>Apr 02, 2020</td>
<td>Unassigned</td>
<td>Jared Whiklo</td>
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<td>FCREPO-3268</td>
<td>Rebuild does not succeed for Binary resources</td>
<td>Apr 02, 2020</td>
<td>Apr 04, 2020</td>
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<td>Andrew Woods</td>
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<td>Ready for Test</td>
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<tr>
<td>FCREP</td>
<td>Issue</td>
<td>Update SMT documentation for fcrepo endpoint</td>
<td>Apr 02, 2020</td>
<td>Apr 02, 2020</td>
<td>Ben Pennell</td>
<td>Ben Pennell</td>
<td>OPEN</td>
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<tr>
<td>FCREP</td>
<td>O-3266</td>
<td>Implement Transaction Expiration</td>
<td>Apr 01, 2020</td>
<td>Apr 01, 2020</td>
<td>Unassigned</td>
<td>Danny Bernstein</td>
<td>OPEN</td>
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<td>FCREP</td>
<td>O-3265</td>
<td>Implement cancel transaction on transaction endpoint</td>
<td>Apr 01, 2020</td>
<td>Apr 01, 2020</td>
<td>Unassigned</td>
<td>Danny Bernstein</td>
<td>OPEN</td>
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<tr>
<td>FCREP</td>
<td>O-3264</td>
<td>Implement Start and Commit of multi-request spanning transactions</td>
<td>Apr 01, 2020</td>
<td>Apr 01, 2020</td>
<td>Unassigned</td>
<td>Danny Bernstein</td>
<td>OPEN</td>
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<td>FCREP</td>
<td>O-3263</td>
<td>NonRdfSource descriptions are missing headers</td>
<td>Apr 01, 2020</td>
<td>Apr 02, 2020</td>
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<td>Jared Whiklo</td>
<td>CLOSED</td>
<td>Fixed</td>
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7 issues

**Minutes**

1. fc:fixity endpont
   a. discussed in fcrepo leadership
   b. Andrew: fixity as a test case that highlights need for clear feedback and communication channels between community, tech, leaders, and committers
   c. tech thread and leadership thread: do we want fixity service? yes
      i. open discussions about resources needed to maintain this feature
      ii. if it is important for community it should be in the spec
   d. github issue: [https://github.com/fcrepo/fcrepo-specification/issues/373](https://github.com/fcrepo/fcrepo-specification/issues/373)
      i. open question about whether there could be an additional header to RFC 3230 that returns a success/failure status
   e. deprecation status?
      i. should it be in the core? seems to be a critical preservation feature
      ii. Peter: fine with moving this to a header if we can get a status header a la Andrew's GitHub issue
      iii. Josh: agrees that this needs to be a core responsibility of Fedora
         1. external content wrinkle
         2. external content is beneficial to large content repos
         3. external content is not covered by current fixity
         4. Josh has been looking at extensions to check fixity for external content
      iv. Bethany: copy and proxy will check fixity on new external content implementation; only redirect is left out
         1. could use some further testing
         2. Josh: how does it perform?
   f. Andrew: interested in the header approach
      i. Peter: can we use a link header for this?
   g. Bethany: are the spec writers talking about this?
      i. Andrew: no, this is why github issue has been added
   h. Jared: where do we store the digests? have to persist check
      i. external content is a bigger concern for performance
      ii. redirect seems hard to implement
      iii. Jared: need to store checksum where it is always available; similar to MIME type
   i. Peter: sounds like a server-managed triple?
      1. Bethany: store as a property on the binary itself?
      2. Jared: if server-managed triple do you return it in your graph?
      3. Andrew: these seem to be issues in general about server-managed triples
   v. Jared: the reference implementation should only implement the spec
      1. adding additional features to reference implementation means the spec is lacking
      2. Josh: API-X as an alternative to core?
      3. Jared: should also be discussion around the github issue
      4. if it is a vital part of Fedora then it should be in the spec; discuss how (MUST/MAY/SHOULD?)
      5. Andrew: agrees essential features should be in spec
   vi. fixity service only answers the question of "is this resource what you think it is?"
      1. "self-healing repo" feature is out of scope; current/future fixity service does not address the question of "what next?"
      2. Jared: interested parties should speak up in comments on the github issue
      3. Bethany: we should send a follow-up email on the original thread(s) that highlights the github issue
   vii. Doran: seems to be two issues: a) should we have the service? b) how should it be implemented?

2. getting to 5.0
   a. PR for external content went in this week
      i. handful of issues to check
ii. any other 5.0 developments last week? no

b. documentation updates
   i. ongoing effort
   ii. Andrew: note the red X's indicating pages that need work; reviewer should add notes about what kind of changes are suggested
   iii. Josh: can contribute to documentation effort
      1. are there instructions about what should be done for updates? procedure?
      2. Bethany: just go in and edit the 5.x versions of pages
      3. if you work on a page work on the whole page, or note where you stop
   iv. Kevin: reviewer status?
      1. Peter: use the star
      2. Bethany: do we need to track who reviewed?
      3. Kevin: add reviewer name in the "Who?" column

c. another sprint
   i. timeframe: July? maybe 2 sprints
      ii. Andrew: did a Doodle go out
         1. no one seems to have seen a Doodle
      iii. Andrew: 2 sprints sound good
         1. earliest/latest dates? July-October

3. messages emitted
   a. what do we need to do to move FCREPO-2604 along?
      b. Andrew: Kevin's point: does a change to a inbound reference warrant a message?
         i. if yes, close ticket as complete
         ii. if no, need more work
   c. Josh: inbound reference shouldn't change the state of the target resource
      i. Bethany: agrees
   d. Kevin: implication is just for resources that need to know that inbound references changed
   e. Bethany: can we distinguish between different kinds of changes
      i. Andrew: we don't track individual properties, so might be weird if we track this but not individual properties
   f. Josh: could this be useful for indexing
      i. Peter: does this have enough information to be useful for indexing
   g. Bethany: puts the work on the client?
   h. Jared: can we use different ActivityStream type for these type of change messages?
      i. there are object/link type relationships
      ii. makes for easier filtering
      iii. Bethany, Peter: agree
      iv. Andrew: requires Fedora to know that a change is due to an inbound reference
      v. action: new JIRA ticket to explore nature of changes before messages are emitted (Jared)

4. fcrepo cloud migrator tool
   a. Carrick: can do an overview next week
   b. has anyone tried ingesting edited Turtle? not yet
   c. Peter: looks like RDF 1.0 to 1.1 conversion issue (explicit to implicit string type)

Actions

- Look at fcr:fixity in JIRA - creating a ticket and look at options
- See if possible option for fixity checking could be an API-X service
- Talk to API Spec group about returning fixity check result as an additional header, returned on 'want-digest'.
- **Peter Eichman** - See how tightly bound our current implementation is to modeshape, in regards to the fixity endpoint. Can look at at the end of next week.
- Message to list-serve to see who might be using fcrepo-java-client outside of fcrepo-camel
- **Jared Whiklo** - New JIRA ticket to explore nature of changes before messages are emitted
- Andrew Woods - Send out a Doodle poll to get a timeframe for next 5.0 sprints (July-October dates)