

2018 Spring API Alignment Sprint 1 Planning

Tickets Completed

March 5, 2018 (Mon)

 [FCREPO-2684](#) - GET on LDPCv returns 500 on Binary Resource CLOSED - Jared Whiklo

 [FCREPO-2690](#) - Binary timemaps don't translate their paths correctly CLOSED - Danny Bernstein

March 6, 2018 (Tues)

 [FCREPO-2694](#) - fcr:metadata endpoint lists timemaps incorrectly CLOSED - Jared Whiklo

 [FCREPO-2675](#) - Change the PreferInboundReferences URI in Prefer header CLOSED - Longshou Situ

 [FCREPO-2669](#) - Reduce solr/triplestore retries from 10 to 1 in fcrepo4-vagrant CLOSED - Jared Whiklo

March 7th, 2018 (Wed)

 [FCREPO-2696](#) - Change the EmbedResources URI in Prefer header CLOSED - Longshou Situ

 [FCREPO-2664](#) - HEAD response headers should match GET request non-payload response headers CLOSED - Joe Harrington

 [FCREPO-2686](#) - Disallow PUT and PATCH on LDPCv CLOSED - Longshou Situ

 [FCREPO-2678](#) - Replace current Link rel="type" Header for LDPv with Memento specified link CLOSED - Longshou Situ

 [FCREPO-2677](#) - POSTing a LDP-NR does not return constrainedBy Link header CLOSED - Yinlin Chen

March 8th, 2018 (Thurs)

 [FCREPO-2679](#) - Replace outdated LDPRv link headers with Memento specified headers CLOSED - Longshou Situ

 [FCREPO-2647](#) - POST request to LDPCv to create LDPRm CLOSED - Ben Pennell

 [FCREPO-2699](#) - Realign links in Test Suite Report to API specification anchors CLOSED - Randall Floyd

 [FCREPO-2688](#) - Implement ACL linking on resource creation CLOSED - Danny Bernstein

March 9th, 2018 (Fri)

 [FCREPO-2743](#) - Merge memento-versioning branch into master CLOSED - Danny Bernstein

March 12th, 2018 (Mon)

 [FCREPO-2700](#) - Test Suite conformance verification: Section 3.1 CLOSED - Randall Floyd

 [FCREPO-2684](#) - Implement LDPCv DELETE CLOSED - Longshou Situ

March 13th, 2018 (Tues)

none

March 14th, 2018 (Wed)

-  [FCREPO-2706](#) - Create container mementos from body CLOSED - Ben Pennell
-  [FCREPO-2594](#) - Must allow interaction model to change to subtype of current model, but disallow changing to non-subtype CLOSED - Longshou Situ
-  [FCREPO-2594](#) - PUT must fail with 409 if trying to change interaction model to non-subtype CLOSED - Longshou Situ
-  [FCREPO-2701](#) - Test Suite conformance verification: Section 3.2 CLOSED - Randall Floyd
-  [FCREPO-2702](#) - Test Suite conformance verification: Section 3.3 CLOSED - Randall Floyd
-  [FCREPO-2703](#) - Test Suite conformance verification: Section 3.4 CLOSED - Randall Floyd
-  [FCREPO-2707](#) - Provide separate timemap for binary and description CLOSED - Ben Pennell
-  [FCREPO-2648](#) - Remove Support for Slug Header on POST to LDPCv CLOSED - Longshou Situ
-  [FCREPO-2705](#) - Validate ACL Link Header on Create and return 409 with clear error message. CLOSED - Joe Harrington

March 15th, 2018 (Thurs)

-  [FCREPO-2705](#) - Validate ACL Link Header on Create and return 409 with clear error message. CLOSED - Joe Harrington
-  [FCREPO-2722](#) - Cannot create resource with acl, throw 409 Conflict CLOSED - Yinlin Chen
-  [FCREPO-2645](#) - Support OPTIONS request on LDPRms CLOSED - Longshou Situ
-  [FCREPO-2724](#) - Test Suite conformance verification: Section 3.6 CLOSED - Randall Floyd

March 16th, 2018 (Fri)

-  [FCREPO-2749](#) - Paths for children of Timemap don't get their paths transformed correctly. CLOSED - Ben Pennell
-  [FCREPO-2729](#) - Refactor Versioning Tests CLOSED - Longshou Situ
-  [FCREPO-2723](#) - If acl URI exists but does not contain the correct triple, return 409 CLOSED - Joe Harrington

Ticket to Specification Tracking

The table below is derived from the following document

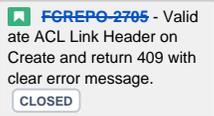
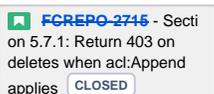
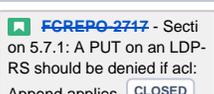
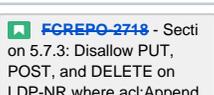
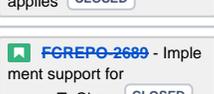
[Fedora API Spec and Delta Document Verification](#)

Issue Description	Spec Reference	Priority	Difficulty	Story Points	Related JIRAs	Can be worked now	Sprint	Depends on	Notes
-------------------	----------------	----------	------------	--------------	---------------	-------------------	--------	------------	-------

Duplicate headers when GETting binaries		1	1	1	 FCREPO-2744 - Duplicate headers on Binary Resources <input type="button" value="CLOSED"/>	x			
Change the PreferInboundReferences URI in Prefer header from http://fedora.info/definitions/v4/repository#InboundReferences to the one defined in the spec (ie http://fedora.info/definitions/fcrepo#PreferInboundReferences)	3.2.1	1	1	1	 FCREPO-2675 - Change the PreferInboundReferences URI in Prefer header <input type="button" value="CLOSED"/>  FCREPO-2696 - Change the EmbedResources URI in Prefer header <input type="button" value="CLOSED"/>	x			
HTTP Head does not return the same headers as if the request were a GET	3.3	3	1	1	 FCREPO-2664 - HEAD response headers should match GET request non-payload response headers <input type="button" value="CLOSED"/>  FCREPO-2744 - Duplicate headers on Binary Resources <input type="button" value="CLOSED"/>	x			
POSTing a LDP-NR does not return correct constrainedBy Link header	3.5	2	1	1	 FCREPO-2677 - POSTing a LDP-NR does not return constrainedBy Link header <input type="button" value="CLOSED"/>	x			
MUST return 409 if request's type Link is not resource's current type or subtype thereof, or not in LDP namespace <ul style="list-style-type: none"> Though the message coming back in the case of an attempt to move from RDFSsource to NonRDFSsource says "Resource Already Exists" instead of returning a constrained by header Same message is returned trying to move from ldp:Container to an ldp:DirectContainer or ldp:BasicContainer or ldp:Container MUST change resource's type if request's type Link is a subtype of resource's current type MUST change resource's interaction model if request's type Link has an LDP interaction model Using PATCH it is currently possible to add an rdf:type of ldp:NonRDFSsource to an existing ldp:RDFSsource. This should fail with a 409.	3.6, 3.7.1	1	3	3	 FCREPO-2694 - Must allow interaction model to change to subtype of current model, but disallow changing to non-subtype <input type="button" value="CLOSED"/>  FCREPO-2694 - PUT must fail with 409 if trying to change interaction model to non-subtype <input type="button" value="CLOSED"/>	x		Behavior or Direct and Indirect containers must be verified once these two tickets have been resolved.	
Replace current Link rel="type" Header with memento specified link (i.e. http://mementoweb.org/ns#OriginalResource)	4.1	1	1	1	 FCREPO-2678 - Replace current Link rel="type" Header for LDPv with Memento specified link <input type="button" value="CLOSED"/>	x			
The Accept-Datetime header is used to request a past state, exactly as per RFC7089 section 2.1.1 . A successful response must be a 302 (Found) redirect to the appropriate LDPRm If no LDPRm is appropriate to the Accept-Datetime value, an implementation should return a 406 (Unacceptable).	4.1.1	1	2	2	 FCREPO-2643 - Support Datetime negotiation for LDPRvs <input type="button" value="CLOSED"/>	x		LDPRm GET	
The response to a GET request on an LDPRv must include the following headers <ul style="list-style-type: none"> A <code><http://mementoweb.org/ns#TimeGate>; rel="type"</code> link in the Link header A <code><http://mementoweb.org/ns#OriginalResource>; rel="type"</code> link in the Link header 	4.1.1	1	1	1	 FCREPO-2678 - Replace current Link rel="type" Header for LDPv with Memento specified link <input type="button" value="CLOSED"/>  FCREPO-2679 - Replace outdated LDPRv link headers with Memento specified headers <input type="button" value="CLOSED"/>	x			

<p>LDPm GET</p> <ul style="list-style-type: none"> An implementation must support GET, as is the case for any LDP. The headers for GET requests and responses on this resource must conform to [RFC7089] section 2.1. Particularly it should be noted that the relevant TimeGate for an LDPm is the original versioned LDPv. In addition, any response to a GET request must include a <http://mementoweb.org/ns#Memento>; rel="type" link in the Link header. 	4.2.1	1	3	3	<p> FCREPO-2614 - Add versioning headers for LDPm HEAD/GET responses <input type="button" value="CLOSED"/></p>	x		LDPCv: POST	This may be complete with the resolution to fcrepo-2617. Needs to be verified.
<p>LDPm OPTIONS</p> <ul style="list-style-type: none"> An implementation must support OPTIONS. A response to an OPTIONS request must include Allow: GET, HEAD, OPTIONS as per [LDP]. An implementation may include Allow: DELETE if clients can remove a version from the version history, as noted in 3.8 HTTP DELETE. 	4.2.2	1	1	1	<p> FCREPO-2616 - Support OPTIONS request on LDPms <input type="button" value="CLOSED"/></p>	x		LDPm GET	
<p>LDPm: PUT, POST, and PATCH must return 405 method not allowed</p>	4.2.3-5	1	1	1	<p> FCREPO-2616 - Prevent modification requests to LDPm <input type="button" value="CLOSED"/></p>	x		LDPm GET	
<p>LDPm: DELETE</p> <p>The server is responsible for all behaviors implied by the LDP-containment of the LDPm.</p>	4.2.6				<p> FCREPO-2620 - Allow deletion of binary and binary description mementos (LDPm) <input type="button" value="CLOSED"/></p>	x			This is a MAY: Are we planning to implement?
<p>LDPCv : An implementation must support GET, as is the case for any LDP. Any response to a GET request must include a <http://mementoweb.org/ns#TimeMap>; rel="type" link in the Link header. Currently the <http://fedora.info/definitions/v4/repository#TimeMap> is being used.</p>	4.3.2	1	2	2	<p> FCREPO-2643 - Create Memento type/mixin for filtering versions. <input type="button" value="CLOSED"/></p> <p>(may be closed - depending on approach to fcrepo-2617)</p> <p> FCREPO-2684 - GET on LDPCv returns 500 on Binary Resource <input type="button" value="CLOSED"/></p>				
<p>LDPCv: Disallow PUT and PATCH</p>	4.3.2	1	1	1	<p> FCREPO-2686 - Disallow PUT and PATCH on LDPCv <input type="button" value="CLOSED"/></p>	x			
<p>LDPCv: POST</p> <ul style="list-style-type: none"> A POST that does not contain a Memento-Datetime header should be understood to create a new LDPm contained by the LDPCv, reflecting the state of the LDPv at the time of the POST. Any request body must be ignored. A Memento-Datetime header should be understood to create a new LDPm contained by the LDPCv, with the state given in the request body and the datetime given in the Memento-Datetime request header. 	4.3.3				<p> FCREPO-2617 - POST request to LDPCv to create LDPm <input type="button" value="CLOSED"/></p> <p> FCREPO-2618 - Remove Support for Slug Header on POST to LDPCv <input type="button" value="CLOSED"/></p>	x (2618)			
<p>LDPCv: DELETE:</p> <p>Delete of an LDPCv must remove the LDPCv and removing the versioning interaction model from the original LDPv.</p>	4.3	1	2	2	<p> FCREPO-2684 - Implement LDPCv DELETE <input type="button" value="CLOSED"/></p>	x		LDPm GET	Are we planning to support DELETE?
<p>Vary :</p> <p>When an LDPCv supports POST, and allows clients to specify a datetime for created URI-Ms, Vary-Post/Vary-Put: Memento-Datetime.</p>	4.4	1	1	1	<p> FCREPO-2685 - Implement creation of versions with client specified date/time <input type="button" value="CLOSED"/></p>	x		LDPc POST	

<h2>Replacing Contents from Mementos</h2> <p>Non-normative note: Using the ingest-by-reference mechanism, one can replace the contents of an LDPRv with that of an LDPRm by providing its URL as the <code>URL</code> parameter in a <code>Content-Type: message/external-body</code> header. For example, given an LDPRm with URL http://example.org/some/memento, the full header would be <code>Content-Type: message/external-body; access-type=URL; expiration=1; URL="http://example.org/some/memento"</code></p>	4.5.3	5	3	2	 FCREPO-2682 - Restore an LDPRv from a memento CLOSED				
Create container mementos from body					 FCREPO-2706 - Create container mementos from body CLOSED				
Provide separate timemap for binary and description					 FCREPO-2707 - Provide separate timemap for binary and description CLOSED				
Create historical binary mementos					 FCREPO-2708 - Create historical binary mementos CLOSED				
Create binary description mementos					 FCREPO-2709 - Create binary description mementos CLOSED				
Ignore referential integrity of memento properties					 FCREPO-2740 - Ignore referential integrity of memento properties CLOSED				
Default acls must be defined in accordance with the SOLID WEBAC spec.	5.0	2	2	2	 FCREPO-2683 - Implement Default ACLs CLOSED	x			
Non-normative note: Implementations may set default access controls for all resources by including an ACL for the root container with an authorization that applies to access by any agent (<code>acl:agentClass foaf:Agent</code>), applies to any resource (<code>acl:accessToClass ldp:Resource</code>), and is defined to be inherited (<code>acl:default</code>). The example below grants read access (<code>acl:mode acl:Read</code>) but any combination of modes may be specified.	5.2	1	2	3	 FCREPO-2632 - Use 'acl:agentClass foaf:Agent' to denote public access CLOSED	x			
The interaction pattern for ACL discovery is described in [SOLIDWEBAC] ACL Resource Location Discovery . A conforming server must advertise the individual resource ACL for every controlled resource in HTTP responses with a <code>rel="acl"</code> link in the <code>Link</code> header, whether or not the ACL exists. The ACL resource should be located in the same server as the controlled resource.	5.3	1	2	2	 FCREPO-2704 - "acl" type link response header is missing on NonRDFResources CLOSED	x		depends on fcrepo-2688	

The server must reject the request and respond with a 4xx or 5xx range status code, such as 409 (Conflict) if it isn't able to create the LDP-RS with the specified LDP-RS as the ACL. In that response, the restrictions causing the request to fail must be described in a resource indicated by a <code>rel="http://www.w3.org/ns/ldp#constrainedBy"</code> link in the Link response header, following the pattern of [LDP] 4.2.1.6.	5.4	1	1	1		x		depends on fcrepo-2688	
Restrict Cross Domain ACLs <ul style="list-style-type: none"> it MUST respond with a 4xx range status code and MUST advertise the restriction with a <code>rel="http://www.w3.org/ns/ldp#constrainedBy"</code> link in the Link response header. 	5.5	2	2	2		x			
Implement ACL linking on resource creation	5.4	2	2	2		x			
	5.7.1	1	1	1		x			
	5.7.1	1	1	1				depends on fcrepo-2716	
	5.7.1,2	1	1	1				depends on fcrepo-2717	
	5.7.3	1	1	1				depends on fcrepo-2718	
When an ACL includes an <code>acl:accessToClass</code> statement, it gives access to all resources with the specified type, whether that type is client-managed or server-managed.	5.8					*			
Verify ACL inheritance	5.9				JIRAs needed!				

Critical Non-Alignment Issues to be included in the 5.0.0 release

Jira	Priority	Depends On	Story Points