

2015-03-19 - Audit Service Planning Meeting

Time/Place

- Time: 3:00pm Eastern Standard Time US (UTC-5)
- Call-in: DuraSpace conference line
 - 1-209-647-1600, 117433#

Attendees

- David Wilcox ★
- Andrew Woods
- Nick Ruest
- John Doyle
- Doron Shalvi
- Unknown User (escowles@ucsd.edu)
- ~~Matt Critchlow~~
- ~~Charles Schoppet~~
- Unknown User (westgardja)
- ~~Brian Caruso~~ (will not make it, will check minutes)
- ~~Bria Parker~~
- Eric James
- ~~Michael Friccio~~
- A. Soroka
- Dr. Arif Shaon
- ~~Stefano Cossu~~ (Out of the country – I will not make it, but will check out the minutes)
- ~~Aaron Ceburn~~
- Mark Jordan

Agenda

1. Review proposed requirements
 - a. "Audit service MUST store logs separately or protected separately from the repository resources themselves": is this a valid requirement, or an implementation concern?
 - b. Is it possible to fulfill these requirements via integration patterns and practices (without new code)?
2. Review proposed queries
3. Discuss implementation options
4. Outstanding questions?

Minutes

Review proposed requirements

- Write/Import
 - *Audit service MUST automatically record who updated which resource when and with which action*
 1. How do we determine the "who" in this scenario?
 - a. e.g. Hydra/Islandora use a Fedora admin account rather than a particular user account
 - b. Fedora has a mechanism for passing additional user principals into a request, so these could be used in "on behalf of" entries
 - *Audit service MUST be able to include/import events that were performed external to the repository.*
 1. e.g. Fedora 3 audit logs, external services, past events, etc.
 2. Import format would be RDF
 - a. Outputs of events (e.g. FITS XML) would be stored separately and referenced via URI.
 - b. Need a minimum set of elements that need to be present on imported events
 - *Audit service MUST be able to purge events.*
 1. If the use case is to limit the results of a query, this could be accomplished with a filter
 2. Audit service should keep a log of deleted resources, which is a separate issue
 3. For the purpose of a trustworthy repository, users should not be able to alter or delete audit history
 - *Audit service MUST store logs separately or protected separately from the repository resources themselves*
 1. This is an issue for TRAC compliance
 2. Could be configurable - needs to allow administrators to store audit history in a separate location
 - *Audit service MUST import events with RDF triples drawn from the specified ontologies*
 - *Audit service MUST ensure that all events minimally include the following information*
 1. Event Agent
 2. Event Date/Time
 3. Event Activity
 4. Event Entity
- Read/Export
 - *Audit service MUST be RDF-based, and use PATCH semantics for updates*

1. We should not use PATCH to modify events - we should use POST to add new events
 2. This requirement will be removed
- *Audit service MUST provide evidence of fixity checking on a "routine basis"*
 1. Audit service should support fixity checking events, but not everyone will use fixity checks.
 - *Audit service MUST support dissemination of event/audit information*
 1. Need to be able to query the service
 - *Audit service MUST be able to export full logs in RDF format*
 - *Audit service MUST service queries that vary by:*
 1. *Single or all resources*
 2. *Date range*
 3. *Event type*
 4. *Agent*
 - *Audit service MUST provide a single search endpoint for all repository resource-related events*
 - *Audit service MUST provide a SPARQL-Query search endpoint*
 1. This could be accomplished with an external triplestore
- Requirements define what the audit service should do
 - Implementation is separate - the service may not be a core function of Fedora but a sidecar service that meets the requirements
 - Need to move Fedora toward standards, limit custom code

Actions

- Everyone should review the current set of [requirements](#)
 - If you have a requirement that is not listed, you should not expect it to be supported in the implementation