

2017-03-16 API Extension Architecture meeting

- Thursday 16 March, 1pm EST (UTC -5)
- Dial-in Number: (712) 775-7035
 - Participant Code: 479307#
 - International numbers: [Conference Call Information](#)
 - You may also call in using the [VoIP dialer](#) from a web browser, or Android/iOS apps
- 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

- [Aaron Birkland](#)
- [Ruth Duerr](#)
- [Elliot Metsger](#)
- [Joshua Westgard](#)
- [Andrew Woods](#)
- [Jared Whiklo](#)
- [Daniel Lamb](#)
- [Hanh Vu](#)
- [Yinlin Chen](#)
- [Daniel Davis](#)
- [Unknown User \(acoburn\)](#)
- [Nick Ruest](#)

Agenda

1. Updates/progress
 - a. Development on JHU Package ingest extension
 - b. Refactoring demo images to make changing default ports easier
2. Adding API-X meeting to [community calendar](#)
3. Demo 2 TODOs
 - a. Upgrade Amherst services to latest from Maven Central
 - b. Use Amherst's named graph indexer for indexing objects?
 - c. Write triple store demo
 - d. Write package ingest demo
 - e. Write intercepting extension demo
 - f. LDpath demo?

Minutes

- JHU wrapping "package ingest extension" to POST bags to a given container in repo
 - Uses a streaming-oriented API (e.g. friendly to large chunked uploads, responds immediately with [Server-sent events](#) stream)
 - JHU has use cases related to external tools generating bagged resources, transferring into repository for first time
- [Elliot Metsger](#) refactored docker configuration of demo images to make it easier to specify alternate ports for API-X, other services
- [Christopher Johnson](#) has been developing a suite of tools to support IIIF tools and workflows in Fedora, is using API-X in that suite
 - IIIF meeting in Vatican. There is a subset of users that are interested in Fedora and/or API-X
- Amherst moving to v1.1.0 of repository extension services, has improvements to triple indexing as named graphs
 - Best for API-X to wait for this release before integrating into docker images
- Amherst triple indexer is more general then fcrepo for various reasons, not a drop-in replacement
 - Named graphs, not built around single-subject constraint
 - Does not filter by Indexable out of the box, but a user can add whatever filters they like
 - UMD was having heavy load on Fedora while indexing, may appreciate additional control
- Action item: Replace fcrepo-camel-toolbox indexer with Amherst indexer in demo Docker images
- Want to remove as much internal logic from components (such as triple indexer as possible).
 - Leveraging API-X service binding to filter messages to async processes is compelling use case
 - NASA has multiple indexes, triplestores talking to triplestores, etc
 - API-X helps focus on data rather than technology/implementation details
- Issues with Modeshape slowness
- Should put API-X on community calendar