

STAC Day Intro

March 8, 2018

Spec Progress

- After last sprint spent ~1 month on cleanup, got to a core specification
 - Core json fields speced, with a json schema validator and examples
 - OpenAPI document (thanks to Josh Fix for getting it working right)
 - Description of static catalogs, with a number of samples
- Very flexible with a whole lot left 'open', for implementers to decide
 - Asset descriptions, just require an href. Will be more useful with common fields
 - No shared fields past the core, every implementor can do whatever they want
 - Any mix of relative and absolute links
 - Can basically do a whole lot of different stuff and still be 'compliant' with the spec.

Implementation Progress

- STAC API Implementations
 - Boundless – full service, with 5 content extensions/profiles, and numerous functionality extensions
 - Harris – full service, adding transactions and experimenting with querying, indexing many landsat records
 - Geocatalogo - go implementation, implementing core API
- STAC Static Catalogs
 - Radiant Earth / Azavea Iserv catalog on amazon
 - Planet sample disaster data catalog
 - DigitalGlobe examples and internal use
 - David Hemphill client project
- Thanks to everyone for working with such an early spec version!

Discussions Yesterday

- WFS <-> STAC
 - Consensus that STAC as an opinionated 'profile' of WFS 3 is the way to go.
 - Mapped out the specific changes needed
 - Need to update OpenAPI document and get it all in the repo
- Earth Observation Profile
 - Got rough consensus on main fields
 - Major work on how to define assets / bands
 - Lead to some updates for the core
 - Asset Definition JSON, linked to from an item, detailing information on all its assets
 - Assets to a Dict, and use the keys to match the Asset Definition JSON

Major Questions / Improvements to discuss

- **Thumbnails in assets**
- **Query language**
- **Relative vs Absolute links**
- **Suggestions from EO discussion** – asset definition JSON + assets -> dict
- **Major core changes?** I'd like this to be the last chance to make major changes
- **Spec Development Process**

Goals Today

- Implementers share their experiences of working with the specification
 - What worked, what didn't, what changes / improvements to the spec would help?
- Discussions driving concrete spec improvements
 - Start with groupwide topics, assign people to do issues / PR's for each discussed.
 - Break in to groups, to continue more specific discussions, and work on the actual spec
 - Those new to spec to try out implementing, give feedback
- Walk out with the spec repo with updates
 - And clear owners to continue to drive issues forward more