Technology, Standards, and Specifications

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Overview

This document describes potential technologies that may be used for creating or processing change management documents.

Activity Streams

[Specification for Activity Stream 2.0](#)

See working document [Activity Streams - Example Change Documents for Authoritative Data](#).

Compatible with JSON-LD, but has its own media-type.

Example: *(Rough approximation of how a NEW entity action could be recorded. Exact recommendation TBD.)*

```
{
  "@context": "https://www.w3.org/ns/activitystreams",
  "summary": "New Term: milk",
  "type": "NEW",
  "published": "2021-06-10T15:04:55Z",
  "URI": "http://my.authority/uri/of/new/entity",
  "authority" : {
    "id": "http://my.authority/",
    "name": "My Authority",
  },
  "json-ld": {
    ... full json-ld of the new entity ...
  },
}
```

[Sidecar specification describing activity types](#) (e.g. add, delete, etc.)

Many of the changes we will make are covered by the activity types in the spec. May need to add custom types for some (e.g. label change).

RDF Diff

- Provides info on several tools that (for the most part) compare 2 graphs and report on differences (https://www.w3.org/2001/sw/wiki/How_to_diff_RDF)

RDF*

Specification (draft) of RDF* and SPARQL* - https://w3c.github.io/rdf-star/cg-spec/editors_draft.html

Other Refs

- High level description and examples - https://enterprise-knowledge.com/rdf-what-is-it-and-why-do-i-need-it/

IIIF Change Discovery

Specification: https://iiif.io/api/discovery/0.9/

Uses ActivityStreams