

Sharing OA and Free DOIs with GetFTR v1

Audience

Publishers, Platforms & Aggregators that use GetFTR

Use Case

Publisher or Aggregator that wishes to share Open / Free / Permanently Free DOIs with GetFTR, so that GetFTR can respond to entitlement requests for these DOIs to

- reduce entitlement requests to publisher API
- provide free/OA responses for the [Central Entitlements Service](#)

Use Case	Request	Response	DOI Types
Central Entitlements Service *	GetFTR handles request	GetFTR sends response	open / free / permFree
Distributed Entitlement Service (reduce entitlement requests to publisher API)	GetFTR handles request	GetFTR sends response	open / free / permFree

* **Note:** For sharing fully OA Journals it is also possible to use the “world” subscriber in the Subscriber Links files.

DOI ingestion

Proposal

As a solution to the problem where Google Subscriber Links data doesn't include OA or Free content at DOI level, we propose GetFTR ingests lists of DOIs per publisher/platform.

Process

At a high level:

1. Files with DOIs are periodically submitted to GetFTR
2. GetFTR ingests files and stores ownership information

3. Central Service uses the DOI information (accessType, VoR) to respond with to the Integrator

Onboarding

A publisher will request additional platform support.

The publisher will provide:

- A name of the platform

GetFTR then provides access to submit files for ingestion to S3.

Criteria

Files

Each file submitted must conform to the following:

- up to 10k dois
- contains newline delimited json
- is gzipped before submission
- name includes UUID e.g. f0e17914-9c70-4520-8196-4f8b47d40876.jsonl.gz
- contains as many DOIs as allowed to decrease the number of files deposited

Schema

Each line must conform to the provided JSON Schema and contain the full record (it will override any information already stored).

```
{
  "doi": "...",
  "accessType": "open",
  "vor": [
    {
      "contentType": "text/html",
      "url": "..."
    },
    {
      "contentType": "application/pdf",
      "url": "..."
    }
  ]
}
```

Field	Required	Description
doi	yes	DOI to store information against
accessType	no	open, free, permFree
vor	no	Array of <i>Document Objects</i> as defined in the “Entitlement API Specification” for publishers. Used by the Central Service to form a spec compliant Open Access (or Free or Permanently Free) response to an integrator.
deleted	no	If true, the record will be removed

Updates

Updates to records will overwrite existing data related to a DOI. Every deposit should always include all information associated with a record.

Records are removed when deposited with the `deleted` flag set to `true`. If a producer is unable to implement deletions via deposits, records will be removed from the store if the platform claiming to own a DOI returns an item level 404.

Error Handling

The ingestion pipeline will be monitored by GetFTR. The pipeline will automatically handle recoverable failures. Failures that cannot be recovered from automatically will be manually handled by GetFTR. GetFTR will reach out to the producer if their input is required.

Examples

Free

File optionally instructs Central Entitlement Service to respond to free entitlement checks:

```
{
  "doi": "...",
  "accessType": "free",
  "vor": [{ "contentType": "text/html", "url": "..." }]
}
```

Open Access

File optionally instructs Central Entitlement Service to respond to OA entitlement checks:

```
{
  "doi": "...",
  "accessType": "open",
  "vor": [{ "contentType": "text/html", "url": "..." }]
}
```

DOI removed

File optionally instructs Central Entitlement Service to remove a DOI:

```
{ "doi": "...", "deleted": true }
```

Platform Resolution

The Central Entitlement Service will prioritize platforms identified via ingested data over platforms determined via Crossref data. It is possible for multiple platforms to provide entitlements for the same DOI in which case a set of predefined rules would be followed.

Scenarios

Open Access / Free / Perm Free

If the DOI store indicates that content is Open Access / Free / Perm Free, Central Entitlements Service will respond to the Integrator with details from the DOI store and will not call the publisher's APIs.

Appendix

v1 JSON Schema

```
{
  "type": "object",
  "properties": {
    "doi": {
      "type": "string"
    },
    "accessType": {
      "type": "string"
    },
    "deleted": {
      "type": "boolean"
    },
    "vor": {
      "type": "array",
      "minItems": 1,
      "items": {
        "type": "object",
        "properties": {
          "contentType": {
            "type": "string",
            "enum": [
              "application/pdf",
              "text/html",
              "application/epub+zip",
              "other"
            ]
          },
          "url": {
            "type": "string",
            "pattern": "^(https?|http?|ftps?|ftp?)://"
          }
        }
      },
      "required": ["contentType", "url"]
    }
  }
}
```

```
},  
"required": ["doi"],  
"additionalProperties": false  
}
```