



Getting started with content registration

Rachael Lammey
Member & Community
Outreach
@crossrefsupport



What can I register?

Journals

Books

Conference Proceedings

Datasets

Dissertations

Reports

Standards

Posted content (preprints)

... and other stuff



Crossref
Content
Registration

metadata

everything, including...

author names, ORCIDs, affiliations, article titles,
ISSN, ISBN, pages, issue #, volume #s, dates,
identifiers

more metadata

such as ...

reference lists, funding data, ORCIDs, license data, clinical trial numbers, errata, retractions, updates and more through our Crossmark service, JATS-formatted abstracts, relationships between items...

Persistent identifiers

Digital Object Identifier (DOI)

DOI registry URL: <http://doi.org/>

prefix: 10.1155/

suffix: 2013/727539

<https://doi.org/10.1155/2013/727539>

DOI suffix

- consistent
- simple
- short

<https://doi.org/10.1063/1.125173>

<https://doi.org/10.1021/cm960127g>

<https://doi.org/10.1101/gr.10.12.1841>

<https://doi.org/10.1109/16.8842>

<https://doi.org/10.1098/rspa.2001.0787>

More details: <https://support.crossref.org/hc/en-us/articles/214669823>

Content registration



Create
Crossref XML



Upload
Crossref XML



Verify registration

Create XML

Crossref Schema

Metadata deposit schema: for everything

[crossref4.4.0.xsd](#) ([documentation](#))

Resource schema: for adding most non-bibliographic metadata to existing records

[doi_resources4.3.6.xsd](#) ([documentation](#))

includes:

common4.4.0.xsd

fundref.xsd

clinicaltrials.xsd

AccessIndicators.xsd

relations.xsd

non-Crossref imports:

JATS

MathML


```
<?xml version="1.0" encoding="UTF-8"?>
<doi_batch version="4.3.6" xsi:schemaLocation="http://www.crossref.org/
schema/4.3.6 http://www.crossref.org/schema/deposit/crossref4.3.6.xsd"
xmlns="http://www.crossref.org/schema/4.3.6" xmlns:xsi="http://www.w3.org/
2001/XMLSchema-instance">
```

```
<head>
```

```
<doi_batch_id>123456</doi_batch_id>
```

```
<timestamp>2015011511345682</timestamp>
```

```
<depositor>
```

```
<depositor_name>Sample Master</depositor_name>
```

```
<email_address>support@crossref.org</email_address>
```

```
</depositor>
```

```
<registrant>CrossRef</registrant>
```

```
</head>
```

member info

```
<journal_metadata>
  <full_title>American Journal of Meetings</full_title>
  <abbrev_title>Am J Meet</abbrev_title>
  <issn media_type='print'>4445-6767</issn>
</journal_metadata>
```

Journal metadata

```
<journal_issue>
  <publication_date media_type='print'>
    <month>5</month>
    <day>5</day>
    <year>2001</year>
  </publication_date>
  <journal_volume>
    <volume>33</volume>
  </journal_volume>
  <issue>1</issue>
</journal_issue>
```

Volume / Issue metadata

```
<journal_article publication_type='full_text'>
  <titles> <title>Lets have a meeting</title></titles>
  <contributors>
    <person_name sequence='first'
contributor_role='author'>
      <given_name>Bob</given_name>
      <surname>Surname</surname>
    </person_name>
  <publication_date media_type='print'>
    <month>5</month> <day>9</day> <year>2001</
year>
  </publication_date>
  <pages>
    <first_page>100</first_page><last_page>200</
last_page>
  </pages>
  <doi_data>
    <doi>10.50505/test_200704082300</doi>
    <resource>http://www.crossref.org/
sampleurl</resource>
  </doi_data>
```

article metadata

identifier and URL

```
<citation_list>
  <citation key="key-10.9876/S0003695199034166-1">
    <issn>0027-8424</issn>
    <journal_title>Proc. Natl. Acad. Sci. U.S.A.</journal_title>
    <author>West</author>
    <volume>98</volume>
    <issue>20</issue>
    <first_page>11024</first_page>
    <cYear>2001</cYear>
  </citation>
```

marked-up citation

```
<citation key="key-10.9876/S0003695199034166-2">
  <unstructured_citation>Hungate, B. A., & Hampton, H. M.
  (2012). Ecosystem services: Valuing ecosystems for climate.
  Nature Climate Change, 2(3), 151-152.</unstructured_citation>
</citation>
```

unstructured

Other options

Web deposit form

- [manual entry form](#), generates XML and uploads it for you (new version in early 2017)

JATS/NLM upload

- upload single JATS-formatted articles, XSLT also available

.csv upload

- [upload](#) funding data, text and data mining license data, and as-crawled URLs for Similarity Check

Resource deposits

- Reference deposits
- As-crawled URLs (used for Similarity Check)
- Multiple Resolution secondary URLs
- Components (supplemental material records)
- Funding metadata
- Crossmark data
- Text and data mining license relationships
- Relationships

More details: <https://support.crossref.org/hc/en-us/articles/214002366>



Uploading and processing files

[HTTPS POST](#), Crossref [admin interface](#), [deposit form](#), [.csv upload](#)

Submission queue



All content registration submissions are added to the same queue

Most are processed quickly but if not, you can [view your spot in the queue](#)



Success! Your content now has persistent identifiers and a Crossref metadata record



Failure...your content has not been registered.

Submission logs

- emailed to address provided in deposit XML or deposit form
- can be retrieved [by polling](#)
- XML format (machine readable)

```
<?xml version="1.0" encoding="UTF-8"?>
<doi_batch_diagnostic status="completed" sp="cr6.crossref.org">
  <submission_id>426240380</submission_id>
  <batch_id>12009_DOIs_unreg_2007-09-21</batch_id> <record_diagnostic status="Success">
    <doi>10.1385/AO:38:1:8</doi>
    <msg>Success</msg>
  </record_diagnostic>
  <record_diagnostic status="Failure" msg_id="22">
    <doi>all doi's of the current journal element</doi>
    <msg>ISSN "15304086" has already been assigned to a different title/publisher/genre</msg>
  </record_diagnostic>
  <record_diagnostic status="Warning">
    <doi>10.3386/w11255</doi>
    <msg>Added with conflict</msg>
    <conflict_id>354709</conflict_id>
    <dois_in_conflict>
      <doi>10.1596/1813-9450-3622</doi>
    </dois_in_conflict>
  </record_diagnostic>
  <batch_data>
    <record_count>3</record_count>
    <success_count>1</success_count>
    <warning_count>1</warning_count>
    <failure_count>1</failure_count>
  </batch_data>
</doi_batch_diagnostic>
```

<batch_data>

<record_count> 3 </record_count>

<success_count> 1 </success_count>

<warning_count> 1 </warning_count>

<failure_count> 1 </failure_count>

</batch_data>

Submission failures and warnings

Errors ([failures](#))

- XML issues - all XML must be valid
- Title management: we enforce consistency among titles, mostly applies to books and journals
- Content ownership issues: if you've acquired a title, make sure we know about it!

Warning

- [Conflict](#): 2 (or more) DOIs share the same metadata

We have your metadata and we give it away

Funders, Institutions, Archives & repositories, Research councils, Data centers, Professional networks, Patent offices, Indexing services, Publishing vendors, Peer review systems, Reference manager systems, Lab & diagnostics suppliers, Info mgmt systems, Educational tools, Data analytics systems, Literature discovery services...

Your links are persistent

Links to your content will live on, regardless of where the content moves

The Crossref community will link to your content

Our members use persistent identifiers in references, which increases (persistent) traffic and supports scholarly infrastructure

Need help?

Visit our Support Center:

<http://support.crossref.org>

Resources

- Crossref deposit schema overview: <https://support.crossref.org/hc/en-us/articles/214169586>
- Constructing your identifiers: <https://support.crossref.org/hc/en-us/articles/214669823>
- 4.4.0 deposit schema: <http://www.crossref.org/schemas/crossref4.4.0.xsd>
- 4.4.0 schema documentation: http://www.crossref.org/help/schema_doc/4.4.0/4.4.0.html
- Adding to your metadata record: <https://support.crossref.org/hc/en-us/articles/214002366>
- Resource schema: http://www.crossref.org/schemas/doi_resources4.3.6.xsd
- Deposit form: <http://www.crossref.org/webDeposit/>
- CSV upload: <https://support.crossref.org/hc/en-us/articles/215871703>
- HTTPS POST: <https://support.crossref.org/hc/en-us/articles/214960123>
- Uploading files via system interface: <https://support.crossref.org/hc/en-us/articles/214240126>
- View your spot in queue: <https://support.crossref.org/hc/en-us/articles/215956603>
- Polling for submissions: <https://support.crossref.org/hc/en-us/articles/217515926>
- Common errors: <https://support.crossref.org/hc/en-us/articles/215789303>
- Conflicts: <https://support.crossref.org/hc/en-us/articles/214241086>
- Support Center: <https://support.crossref.org>

Noun project images from Olivi Stoian, Icon Fair, Rohit Kumar, Ralf Schmitzer, Chris Holman

Maintaining your metadata



Complete metadata record

author names, ORCIDiDs, affiliations, article titles, ISSN, ISBN, pages, issue #, volume #s, dates, identifiers, reference lists, funding data, license data, clinical trial numbers, errata, retractions, updates and more through our Crossmark service, JATS-formatted abstracts, relationships between items

**Adding to, updating
and correcting**

Bibliographic metadata

Must be submitted as a metadata record registration:

- Citation metadata (author, titles, dates, ISSN/ISBN, volume, issue, DOI)
- ORCID
- Abstracts

Add metadata (via resource deposits)

- Reference deposits
- As-crawled URLs (used for Similarity Check)
- Multiple Resolution secondary URLs
- Components (supplemental material records)
- Funding metadata
- Crossmark data
- Text and data mining license relationships
- Relationships

<https://support.crossref.org/hc/en-us/articles/214002366>

Updates to metadata

Resubmit your record!

- must include all metadata in the section you are updating

Update URL only

- resubmit your record (bibliographic metadata only)

or

- send us a list of DOIs and URLs and we'll update them for you

Remove metadata

Bibliographic metadata: nope, sorry

Resource metadata - must be explicit:

<crossmark/>

<fr:program name="fundref"/>

<citation_list/>

Timing updates

< 5,000 updates: ok

> 5,000 updates: still OK, may take a few hours

> 50,000 updates: may take a day or so

> 100,000 updates: coordinate with Crossref or
prepare for delays

Evaluating your metadata

Mirror mirror on
the wall
who has the best
metadata of all?



Viewing your metadata


Crossref Metadata Search

<http://search.crossref.org>

[Funding Data](#) [Link References](#) [Status](#)

sort by: **RELEVANCE** [PUBLICATION YEAR](#)

Showing DOI matching 10.3789/isqv24n4.2012.04

OCLC  WorldShare Management: Early adopter experience at a small liberal arts institution
Journal Article published 2012 in *Information Standards Quarterly* volume 24 issue 4 on page 21
Authors: Gentry Halbert
<https://doi.org/10.3789/isqv24n4.2012.04> [Actions](#)

REST API

<http://api.crossref.org>

View metadata for your prefix (JSON):

<http://api.crossref.org/prefixes/10.1256/works>

View a single metadata record:

<http://api.crossref.org/works/10.1002/14651858.CD004692.pub3>

```
    },
    "date-time": "2016-02-23T11:10:12Z",
    "timestamp": 1456225812116
  },
  "reference-count": 0,
  "publisher": "Wiley-Blackwell",
  "issue": "12",
  "license": [
    {
      "content-version": "tdm",
      "delay-in-days": 4292,
      "start": {
        "date-parts": [
          [
            2015,
            9,
            1
          ]
        ],
        "date-time": "2015-09-01T00:00:00Z",
        "timestamp": 1441065600000
      },
      "URL": "http://doi.wiley.com/10.1002/tdm_license_1"
    }
  ],
}
```

REST API

Total # of DOIs:

[http://api.crossref.org/prefixes/
10.xxxx/works?rows=0](http://api.crossref.org/prefixes/10.xxxx/works?rows=0)

```
{
  "status": "ok",
  "message-type": "work-list",
  "message-version": "1.0.0",
  "message": {
    "items": [],
    "total-results": 220,
    "query": {
      "search-terms": null,
      "start-index": 0
    },
    "items-per-page": 0,
    "facets": {}
  }
}
```

of records with funder IDs:

<http://api.crossref.org/prefixes/10.xxxx/works?filter=has-funder-doi:true&rows=0>

of records with funder ID and/or name:

http://api.crossref.org/prefixes/10.xxxx/works?filter=has-funder:true&facet=publisher-name:*&rows=0

of records with award number:

<http://api.crossref.org/prefixes/10.xxxx/works?filter=has-award:true&rows=0>

of records with Crossmark data:

<http://api.crossref.org/prefixes/10.xxxx/works?filter=has-update-policy:true&rows=0>

of records with license URLs:

<http://api.crossref.org/prefixes/10.1111/works?filter=license.version:tdm&rows=0>

of records with at least one ORCID:

<http://api.crossref.org/prefixes/10.1111/works?filter=has-orcid:true&rows=0>

XML API

View your XML by DOI:

[https://doi.crossref.org/search/doi?
pid=username:password&format=unixsd&doi=10.1037/a0029223](https://doi.crossref.org/search/doi?pid=username:password&format=unixsd&doi=10.1037/a0029223)

Caveat: can see deposited references *if* you use your login (or have opted to make your references public)

Deposit Harvester

OAI-PMH harvester of your own data (all data included)

<listrecords>

<record>

```
<header>
  <identifier>info:doi/10.5555%2Fpubdate1</identifier>

  <datestamp>2012-09-26</datestamp>

  <setSpec>J</setSpec>

  <setSpec>J:10.5555</setSpec>

  <setSpec>J:10.5555:161845</setSpec>
</header>
```

<metadata>

```
<journal xmlns="http://www.crossref.org/xschema/1.1">
  <journal_metadata language="en">
    <full_title>Journal of Test Deposits</full_title>
    <abbrev_title>JRT</abbrev_title>
    <issn media_type="print">0198-8220</issn>
  </journal_metadata>
  <journal_issue>
    <publication_date media_type="print">
      <year>2010</year>
    </publication_date>
    <journal_volume>
      <volume>1</volume>
    </journal_volume>
    <issue>1</issue>
  </journal_issue>
  <journal_article publication_type="full_text">
    <titles>
      <title>test surname length</title>
    </titles>
    <contributors>
      <person_name sequence="first" contributor_role="author">
        <given_name>Bob.</given_name>
        <surname>Surnameisreallyreallyreallyreallyreallylong</surname>
      </person_name>
    </contributors>
    <publication_date media_type="print">
      <year>2000</year>
    </publication_date>
```


Reports

- [Schematron report](#): emailed weekly, identifies some ‘messy’ metadata
- [Field \(‘missing metadata’\) report](#): lists unpopulated bibliographic metadata fields
- [Title list](#): volume, issue, publication year
- [Conflict report](#): identifies records with identical metadata
- [Resolution report](#): lists DOIs that have been resolved but not registered
- Emails from Crossref <— **very important**

Schematron warnings

Suffix in surname:

Butters Jr.
Prata III
Szezech Sr.

Punctuation in surname:

Maura (Gee) Geraldine
Frederick (Frikkie) J.
Arch Marin march@ub.edu
Peng*
TINA (A.C.)

Other rules:

text in edition, volume, issue elements:

- ed 1
- iss 5
- vol 4

Surname / title all upper case

Page number contains ‘_’

Need help?

<http://support.crossref.org>

or support@crossref.org

Resources

- Crossref metadata and schema documentation: <https://support.crossref.org/hc/en-us/categories/201744683>
- Resource deposits: <https://support.crossref.org/hc/en-us/articles/214002366>
- Updating metadata: <https://support.crossref.org/hc/en-us/articles/213022486>
- Metadata Search: <http://search.crossref.org>
- Metadata API: <http://api.crossref.org>
- XML API: <https://support.crossref.org/hc/en-us/articles/213420726>
- Reports: <https://support.crossref.org/hc/en-us/sections/202832743>
- Support: <http://support.crossref.org> or support@crossref.org
- Ian Calvert talk from Live 16: <https://www.youtube.com/watch?v=vEvvb70TfiE>

Questions?

support@crossref.org
[@CrossrefSupport](https://twitter.com/CrossrefSupport)

