



Introduction to TIND

Guillaume Lastecoueres



Good afternoon

Introduction to TIND

Basics

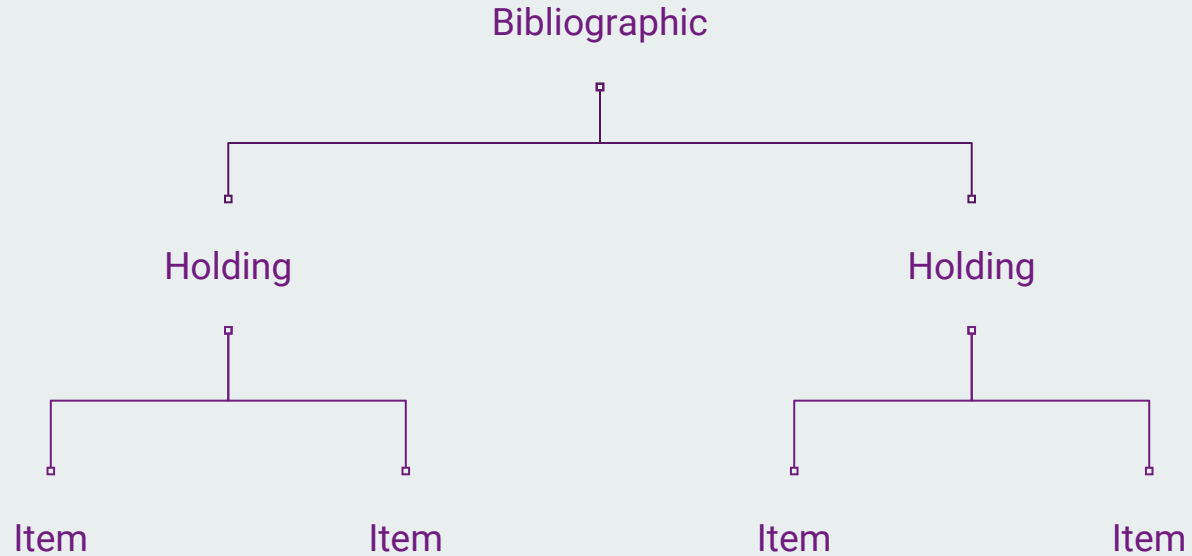
Record types

Bibliographic record.

Holding record.

Item record.

Record types



Metadata

MARC is an information format used to exchange bibliographic records. (1968)

Multiple versions.

Metadata

MARC21 is the fusion of multiple versions.

Defined by the library of congress.

<https://www.loc.gov/marc/bibliographic/>

Metadata

MARC21 is old format, clunky representation.

File under the extension .mrc

Modern version MARCXML based on marc fields.

Metadata

Three information field:

Leader - General information about the record (language, date, type etc)

Controlfield - Extra information about the record (record id, last modification date)

Datafield - Content

Metadata

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Leader - General information about the record (language, date, type etc)

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Datafield - Content

Metadata

Leader

02141nam\ a2200301 1a\4500

Metadata

Record length	02141
Record status	n
Type of record	a
Bibliographic level	m
Type of control	\
Character coding scheme	a
Indicator count	2
Subfield code count	2
Base address of data	00301
Encoding level	1
Descriptive cataloging form	a
Multipart resource record level	\
Entry map	4500

Metadata

Date entered on file	p90613
Type of date/Publication status	s
Date 1	1928
Date 2	\\\\
Place of publication, production, or execution	dcu
Illustrations	\\\\
Target audience	\\
Form of item	s
Nature of contents	\\\\
Government publication	f
Conference publication	0
Festschrift	0
Index	0
Undefined	\\
Literary form	0
Biography	\\
Language	eng
Modified record	\\
Cataloging source	d

Metadata

Controlfield

Data tag + a value

005 tag is latest transaction

005 20180701004536.0

Metadata

Datafield

Data tag + indicator 1 + indicator 2 + subfield + value

100 tag is author

100 __a Guillaume Lastecoueres

Metadata

100__a - Author

245__a - Title

500__a - Notes

700__a - Secondary authors

Metadata

01809 a2200385
450000100080000026000350000804900080004324501940005193000120024504100230025799800500028000
500150033009900130034599900290035899900290038799900290041699900290044599900290047403900080
050319100650051100800410057603500130061785601180063085601180074885601180086685601180098485
601190110285601180122109100080133904000140134730000110136102900190137226900130139151500190
14041000007 a[New York] :bUN,c6 June 2013 ausa10aNote verbale dated 10 May 2013 from the
Permanent Mission of the United Kingdom of Great Britain and Northern Ireland to the
United Nations addressed to the Secretary-General :bcorrigendum aUNDJU130
aarachiengfrerusspa a20130612094600bbccatc20140623082700daazcat20140623082700 aUNHbDHU
adgm20130613b20130613cm abcp20130612b20130612cp abcq20130612b20130612cq
apnc20140619b20140619cc aazr20140623b20140623cr aDHU aSPL0S/260/Corr.1bSPL0S/
c23qSPL0S260CORR1rSPL0S230828305130612s2013 usa #r 1 eng d aD03977717
s52665fSPL0S_260_Corr.1-AR.pdfuhttps://dhl-preview.tind.io/tindfiles/serve/29757d7e-
bc32-47f6-bd7b-548688849408/7 s18824fSPL0S_260_Corr.1-EN.pdfuhttps://dhl-preview.tind.io/
tindfiles/serve/a1bd12e5-4074-484b-b534-a5ec9321f40f/7 s19624fSPL0S_260_Corr.1-
ES.pdfuhttps://dhl-preview.tind.io/tindfiles/serve/31c44dd2-2be8-4861-8ebc-cd1afb190e19/7
s19636fSPL0S_260_Corr.1-FR.pdfuhttps://dhl-preview.tind.io/tindfiles/serve/
481cbe9b-8c9b-4889-8a2d-fbb886b22f52/7 s128121fSPL0S_260_Corr.1-RU.pdfuhttps://dhl-
preview.tind.io/tindfiles/serve/e860b492-53f4-4ed8-9bd4-6d3a6e73f61d/7
s65352fSPL0S_260_Corr.1-ZH.pdfuhttps://dhl-preview.tind.io/tindfiles/serve/
72aeb8d1-0396-44f3-9b60-0276046121ef/ aGEN aNNUNbeng a[1] p. aJNbN1335629 E a20130606
aCorrects text.

Metadata

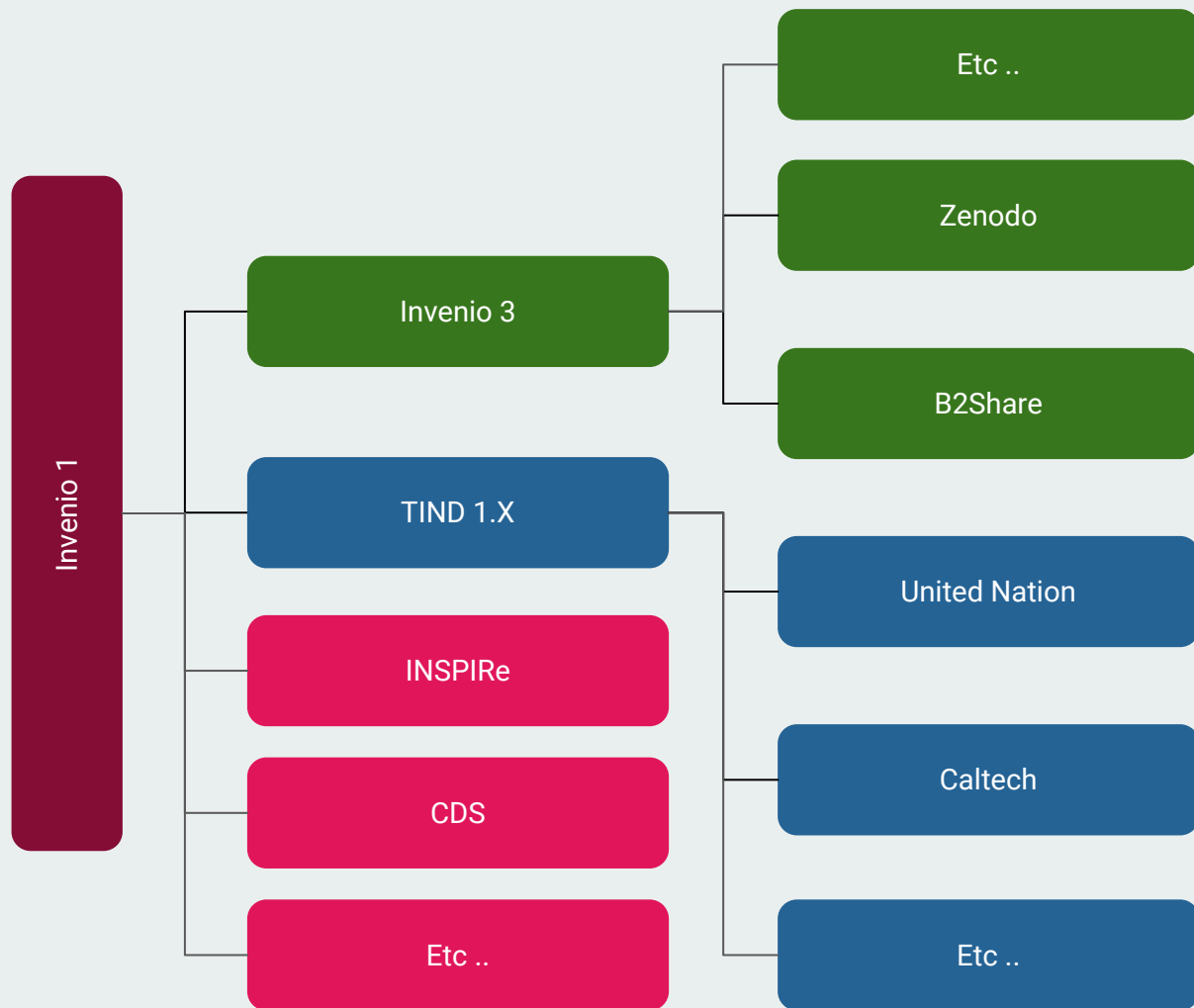
```
<collection>
- <record>
  <controlfield tag="001">1942</controlfield>
  <controlfield tag="005">20171128160417.0</controlfield>
  - <datafield tag="037" ind1=" " ind2=" ">
    <subfield code="a">THESIS-2017-006</subfield>
  </datafield>
  - <datafield tag="041" ind1=" " ind2=" ">
    <subfield code="a">eng</subfield>
  </datafield>
  - <datafield tag="245" ind1=" " ind2=" ">
    <subfield code="a">Demo thesis submission</subfield>
  </datafield>
  - <datafield tag="260" ind1=" " ind2=" ">
    <subfield code="c">2017</subfield>
  </datafield>
  - <datafield tag="269" ind1=" " ind2=" ">
    <subfield code="a">2017</subfield>
  </datafield>
```

Metadata

```
100__a-1, 100__d-1, 245__a, 650__a, 650__a  
Guillaume, 1990-05-12, Test record, Testing, Testing 2
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>  
<collection>  
  <record>  
    <datafield tag="100" ind1=" " ind2=" ">  
      <subfield code="a">Guillaume</subfield>  
      <subfield code="d">1990-05-12</subfield>  
    </datafield>  
    <datafield tag="245" ind1=" " ind2=" ">  
      <subfield code="a">Test record</subfield>  
    </datafield>  
    <datafield tag="650" ind1=" " ind2=" ">  
      <subfield code="a">Testing</subfield>  
    </datafield>  
    <datafield tag="650" ind1=" " ind2=" ">  
      <subfield code="a">Testing 2</subfield>  
    </datafield>  
  </record>  
</collection>
```

Invenio



TIND

Introduction

Founded in 2013 in Norway.

Student exchange with CERN.

Started over Invenio 1.2

Today we are at TIND 1.6.2

PRODUCT OFFERING



TIND
ILS



TIND
IR



TIND
DA



TIND
RDM



technology

SOFTWARE AS A SERVICE

All-inclusive annual subscription.



PLATFORM



HOSTING



UPDATES



SUPPORT



spin-off

Competitors

IR: DSpace, Digital Commons (BePress)

ILS: Millennium, Voyager, Alma

RDM: Figshare

DA: CONTENTdm (OCLC)



Products details

Technical details

Coded in Python/C

Using Elasticsearch (for search)

Using MySQL/MariaDB (for information storage)

Using Redis (for fast caching)

Storage on normal drive or block storage (like Amazon S3)

Metadata

Input

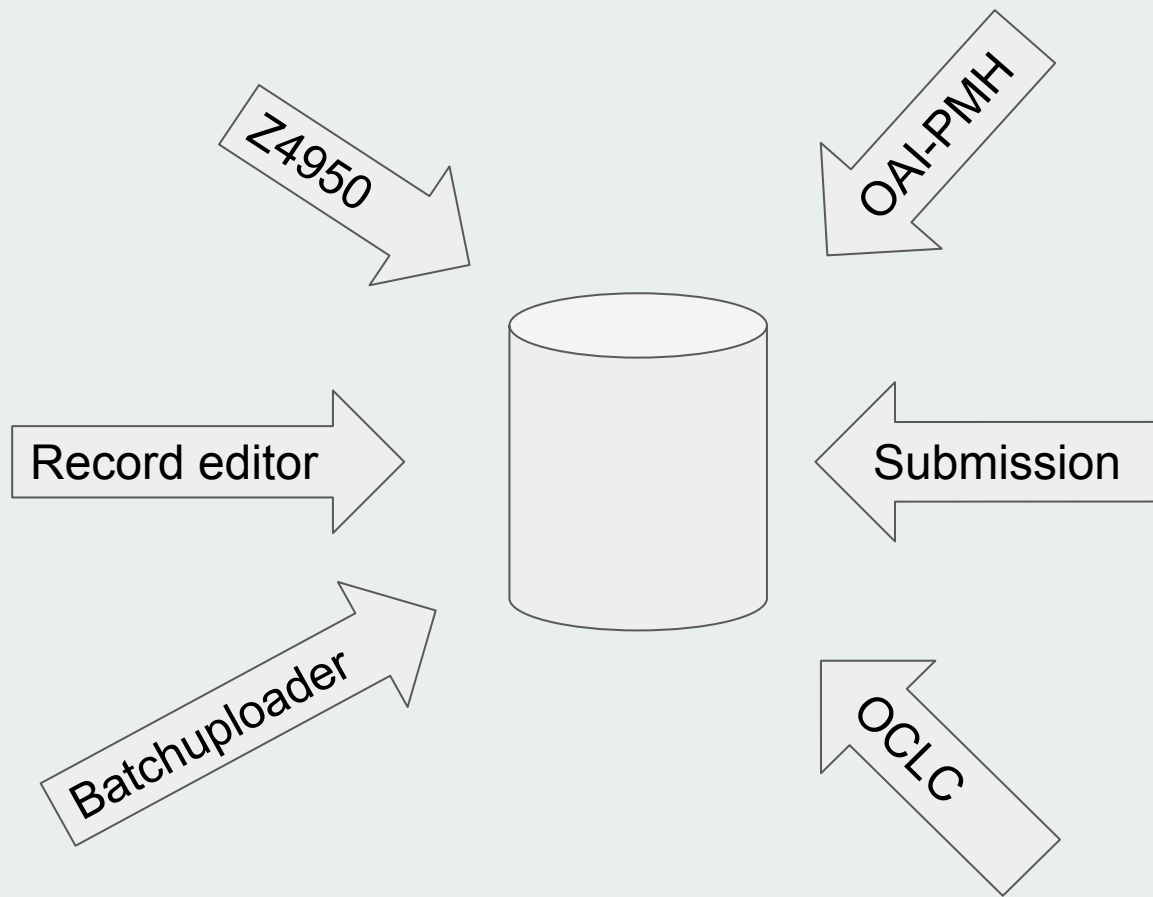
CSV
MARCXML
MARC21
TextMarc

Internal

MARCXML

Export

DublinCore
BibTex
MARC21
MARCXML
EndNote
CSV
RefWorks



Collections

Organisational unit for records.

Organised as a tree.

Can be restricted.

Can be browse by narrow down.

Collections

DSpace issue, hard to manage high number of collections.

Real world case:

Before: [Ageconsearch](#)

Now: [Ageconsearch](#) (Over 2000 collections)

Collections

Collection search

Narrow down

Restriction (Who can see what)

Collections

Collection query:

Document are attached to a collection through a query

E.g: 980:ARTICLE

E.g: 100:J. R. R. Tolkien

✗ TIND Repository

▼ 📁 ✗ Theses

▲▼ 📁 ✗ Conference Materials

▲▼ 📁 ✗ Research Reports

▲▼ 📁 ✗ Discussion papers

▲▼ 📁 ✗ Books & Book Chapters

📁 ✗ Books

📁 ✗ Book Chapters

▲▼ 📁 ✗ Articles

▼ 📁 ✗ Les publications professionnelles

▲▼ 📁 ✗ Preprints

▲ 📁 ✗ Published Articles

▲▼ 📁 ✗ Schools

📁 ✗ College of Management of Technology

▲ 📁 ✗ Workshop Briefs

IR (features)

Submission:

DOI minting.

Multi step workflow.

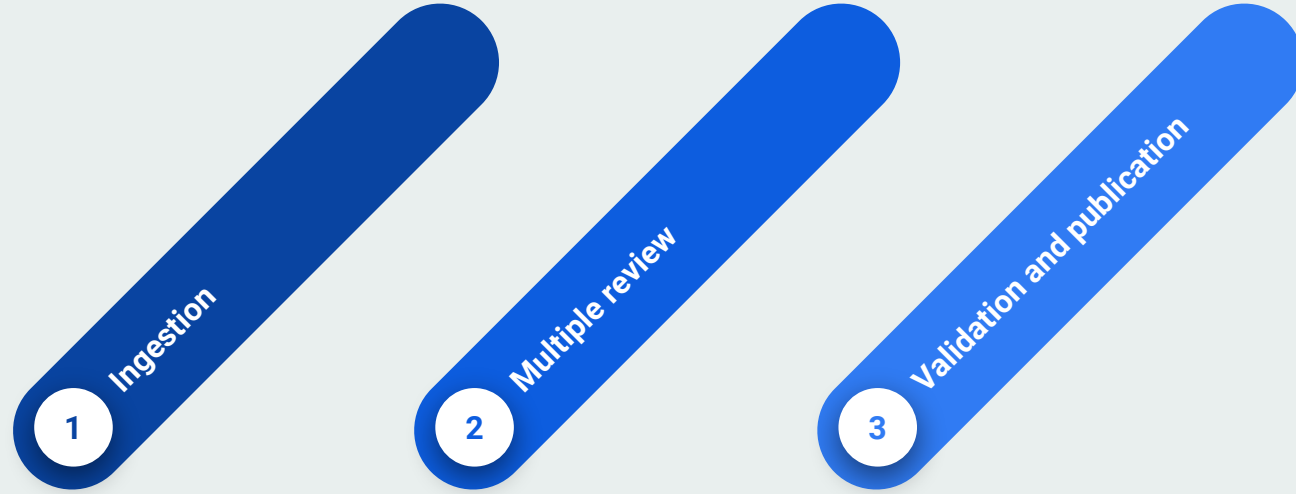
Easy full customisation.

Import.

Authority support.

Embargo.

Submission:



Record view:

Highly customisable.

Can display wide variety of content.

Easy to implement more variety of content.

Search:

Facets.

Fast multi millions record search.

Everything is customisable.

Ranking and sorting.

Fault tolerant.

ILS (features)

Circulation:

Any physical item

Circulation:

Loan

Loan Rules

Hold request

Automatic recall

Search

Patron manager

Circulation:

Loan rules

Patron type + Item type + Location

=

Duration

Circulation:

A loans a book

X wants the same book

X places a hold on the book

Recall or Not

A brings back the book.

X gets the book.

Circulation:

Automatic recalls

Circulation:

Acquisition

Bill - Overview of Spendings - Orders - Gobi integration

Statistics

IR
IR2

RDM

DA

ILS

OAA

OAA

OAA

Stands for

Open Access Africa

OAA

Instance provided by TIND

Full infrastructure

Full capacity

OAA

Free the first year.

If used, will be free one more year.

The logo consists of the letters 'T', 'I', 'N', and 'D' in a light blue, sans-serif font. The 'N' is formed by two diagonal lines meeting at a point. The entire logo is enclosed within a light blue rectangular border.

TIND

Exercises

Guillaume Lastecoueres



Good afternoon

Getting access

The platform

Go to <https://oaa.tind.io>

The platform

Getting your password/your account

The platform

New account send a message

Guillaume Lastecoueres

Become an author authority!

Author(ity)

Discovery of the record editor.

Creating structure

Collections

Create a tree of collections

Collections

Attach collections, translate collection etc...

Collections

Attributing DB query

Collections

Creation of authority for collection

Creation of records

Submission form

Creation of a record with Submission form

Import of a record with submission

Using the Zenodo DOI :)

Editor

Using the Editor

Editor Z49.50

Z49.50

Forging!

Forging a record with xml

Forging!

Forging a record with CSV

Operation on a record

Editing

Editing a record

Deleting

Deleting a record

Changing files

Changing files

Static pages

Creation of records