Introduction to TIND

Guillaume Lastecoueres
Good afternoon
Introduction to TIND
Basics
Record types

Bibliographic record.

Holding record.

Item record.
Record types

- Bibliographic
  - Holding
    - Item
    - Item
  - Holding
    - Item
    - Item
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

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record length</td>
<td>02141</td>
</tr>
<tr>
<td>Record status</td>
<td>n</td>
</tr>
<tr>
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<td>a</td>
</tr>
<tr>
<td>Bibliographic level</td>
<td>m</td>
</tr>
<tr>
<td>Type of control</td>
<td>\</td>
</tr>
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</tr>
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<tr>
<td>Encoding level</td>
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<td>Descriptive cataloging form</td>
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</tr>
<tr>
<td>Multipart resource record level</td>
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<tr>
<td>Entry map</td>
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**Metadata**

<table>
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<tbody>
<tr>
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<td>Type of date/Publication status</td>
<td>s</td>
</tr>
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<td>Date 1</td>
<td>1928</td>
</tr>
<tr>
<td>Date 2</td>
<td>\</td>
</tr>
<tr>
<td>Place of publication, production, or execution</td>
<td>dcu</td>
</tr>
<tr>
<td>Illustrations</td>
<td>\</td>
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<tr>
<td>Target audience</td>
<td>\</td>
</tr>
<tr>
<td>Form of item</td>
<td>s</td>
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<tr>
<td>Nature of contents</td>
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<tr>
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<td>f</td>
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<tr>
<td>Biography</td>
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<tr>
<td>Language</td>
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<tr>
<td>Modified record</td>
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<tr>
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</table>
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
01809 a2200385
450000100800002600035000000804900080004324501900051930001200245041002300257998005000280050015003300990130034599900290033589990029003387990002900416999002900445999002900474039000800500319010065005110080410057603500130661785601180063085601180074885601180086685601180098485
60119011028560118012210910000801339040001401347300000110136102900190137226900130139151500190
140410000007 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 aSPLOS/260/Corr.1bSPLOS/c23qSPLOS260CORR1rSPLOS230828305130612s2013 usa #r eng d aD03977717
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  <record>
    <controlfield tag="001">1942</controlfield>
    <controlfield tag="005">20171128160417.0</controlfield>
    <datafield tag="037" ind1=" " ind2=" ">
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    </datafield>
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      <subfield code="a">eng</subfield>
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    <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=" ">
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  </record>
</collection>
Metadata

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

Invenio 1

Invenio 3

TIND 1.X

INSPIRe

CDS

Etc..

Etc..

Zenodo

B2Share

United Nation

Caltech

Etc..

Etc..

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
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

<table>
<thead>
<tr>
<th>Input</th>
<th>Internal</th>
<th>Export</th>
</tr>
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<tbody>
<tr>
<td>CSV</td>
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<td>DublinCore</td>
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<tr>
<td>MARCXML</td>
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<td>BibTex</td>
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<tr>
<td>MARC21</td>
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<td>CSV</td>
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<tr>
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</table>
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
IR (features)
Submission:

DOI minting.

Multi step workflow.

Easy full customisation.

Import.

Authority support.

Embargo.
Submission:

1. Ingestion
2. Multiple review
3. Validation and publication
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
RDM
OAA

Stands for

Open Access Africa
Instance provided by TIND
Full infrastructure
Full capacity
Free the first year.

If used, will be free one more year.
Exercises

Guillaume Lastecoueres
Good afternoon
Getting access
The plateform

Go to https://oaa.tind.io
The plateform

Getting your password/your account
The plateform

New account send a message

Guillaume Lastecoueress
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
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