

Samuele Kaplun 1st Invenio User Workshop 2012

Invenio RobotUpload

RobotUpload



- PUSH paradigm (V.s. OAI-PMH PULL paradigm)
- To POST (the HTTP way) a record
- Insert/replace/modify/replace
- Upload files via FFT (see talk on BibDocFile)
- BibUpload wrapper

Usage at CERN

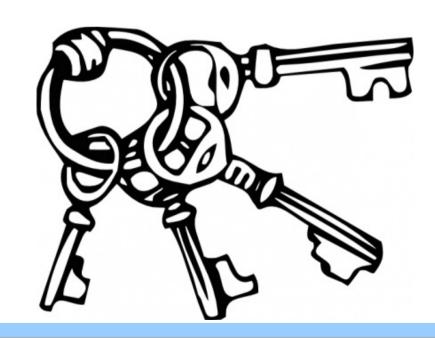


- CMS experiment pushes record automatically to CDS
- Micala software pushes talks held at CERN in CDS automatically
- EDMS (engineering document repository at CERN) will soon push ALICE experiment documents to CDS
- CERN Drupal web infrastructure to push photos and other documents to CDS

Authorization



- IP address based (in 1.0 and newer)
 - Specific IP address ranges authorized to specific collections
- API key a la Twitter (in 1.1 and newer)



Specifications



- multipart/form-data (1.0):
 - MARCXML as a form field
 - E.G.: curl -F 'file=@localfile.xml' -F 'mode=-i'
 http://cdsweb.cern.ch/batchuploader/robotupload -A invenio_webupload
- REST-like (1.1):
 - MARXML as body of the HTTP request
 - easier client creation e.g. in PL/SQL
 - **C.G.:** curl -T localfile.xml http://cdsweb.cern.ch/batchuploader/robotupload/insert -A invenio_webupload -H "Content-Type: application/marcxml+xml"

Feedback



- Immediate HTTP error code in case of non valid MARCXML or other request error
- From 1.1, calls back a given URL, POSTing JSON-encoded results



Feedback



```
"nonce": "1234",
"results": [
     "recid": -1,
     "error message": "ERROR: can not retrieve the record identifier",
     "success": false
  },
     "recid": 1000,
     "error_message": "",
     "success": true,
     "marcxml": "1000...",
     "url": "http://www.example.org/record/1000"
  },
```

Tips & Tricks



- Use FFT (see talk on BibDocFile) to push also digital objects with the metadata
 - The Invenio server need to be authorized to download the digital object
- Use the *nonce* (1.1) argument to map multiple request to their multiple feedbacks
- Use the feedback to discover allocated record IDs...
- ... or preallocate them with the specific allocaterecord API



Summary



- Simple PUSH interface
- REST friendly
- Directly wraps BibUpload
- More info at:

http://.../help/admin/bibupload-admin-guide#4.2