

# Invenio Bundles

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# What you've seen and haven't seen:

- <https://invenio.readthedocs.io/en/latest/general/bundles.html>

# Files

## Bucket operations

Create a bucket:

```
$ curl -X POST http://localhost:5000/files
```

List objects:

```
$ curl http://localhost:5000/files/$B
```

List object versions:

```
$ curl http://localhost:5000/files/$B?versions
```

List multipart uploads:

```
$ curl http://localhost:5000/files/$B?uploads
```

Check bucket existence:

```
$ curl -i -X HEAD http://localhost:5000/files/$B
```

# Files

## Object operations

Download a file:

```
$ curl -i http://localhost:5000/files/$B/AUTHORS.rst
```

Upload a file:

```
$ curl -i -X PUT --data-binary @../INSTALL.rst \  
http://localhost:5000/files/$B/INSTALL.rst
```

Delete a file (creates a delete marker):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/INSTALL.rst
```

Remove a specific version (removes file from disk):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/INSTALL.rst?version
```

# Files

## Multipart file upload

Create a multipart upload:

```
$ curl -i -X POST \  
"http://localhost:5000/files/$B/LICENSE?uploads&size=8&partSize=4"
```

List parts of a multipart upload:

```
$ curl http://localhost:5000/files/$B/LICENSE?uploadId=...
```

Upload parts:

```
$ echo -n "aaaa" | curl -i -X PUT --data-binary @- \  
"http://localhost:5000/files/$B/LICENSE?uploadId=...&partNumber=0"  
$ echo -n "bbbb" | curl -i -X PUT --data-binary @- \  
"http://localhost:5000/files/$B/LICENSE?uploadId=...&partNumber=1"
```

Complete a multipart upload (Celery must be running):

```
$ curl -i -X POST http://localhost:5000/files/$B/LICENSE?uploadId=...
```

Abort a multipart upload (Celery must be running):

```
$ curl -i -X DELETE http://localhost:5000/files/$B/LICENSE?uploadId=...
```

# Files

- Location (storage system)
- Bucket (folder)
- Object (file)
- ObjectVersion (file version)
- FileInstance (physical file)

# Files

## File Instance

[List](#)[Details](#)



<b>ID</b>	7a0e51a7-ca1e-435a-8a41-40fadeb8b556
<b>URI</b>	root://eosmedia.cern.ch//eos/media/zenodo/prod/data/7a/0e/51a7-ca1e-435a-8a41-40fadeb8b556/data
<b>Storage Class</b>	S
<b>Size</b>	85469
<b>Checksum</b>	md5:4f1772914005392cb45a63a19e2c6dc3
<b>Readable</b>	True
<b>Writable</b>	False
<b>Fixity</b>	True
<b>Checked</b>	2019-03-21 08:01:11.873874
<b>Created</b>	2018-05-23 15:14:23.727375
<b>Updated</b>	2019-03-21 08:01:11.875080
<b>Objects</b>	<a href="#">Objects</a>

# Files

File Instance

List (2304370)    Add Filter ▾    With selected ▾    Search: URI, size, checksum

Run fixity check

<input checked="" type="checkbox"/>		ID	URI
<input checked="" type="checkbox"/>		416f5eab-fade-4b7c-85b7-12a1ca9fd5f4	root://eosmedia.cern.ch//eos/media/zenodo/prod/data/41/6f/5eab-fade-4b7c-85b7-12a1ca9fd5f4/data
<input checked="" type="checkbox"/>		f6ade3c2-e605-4e99-9c1e-ab88fada9cd3	root://eosmedia.cern.ch//eos/media/zenodo/prod/data/f6/ad/e3c2-e605-4e99-9c1e-ab88fada9cd3/data



# AngularJS to React

## React-SearchKit

A simple yet powerful UI search kit built with R

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DISCOVER COMPONENTS

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The screenshot displays the React-SearchKit search interface. At the top, there is a search bar with the text "Type something" and a "Search" button. Below the search bar, the page is divided into several sections:

- Categories:** A list of categories with checkboxes and counts: Cern (3083), Open (220), Atlas (145), Cms (114), Scada (9), and Cern50 (2).
- Languages:** A list of languages with checkboxes and counts: En (2435), Fr (604), Silent (380), It (92), Pt (54), De (52), El (40), Es (37), Pl (19), and Hu (13).
- Types:** A list of types with checkboxes and counts: Video (2561) and Footage (1012).
- Search Results:** A list of search results. The first result is "ALPHA-G" by Jeffrey Hangst at the Antiproton Decelerator hall. The second result is "CERN e-Procurement, receive and manage orders" by Jeffrey Hangst. The third result is "CAS, CERN Accelerator School" by Jeffrey Hangst. The fourth result is "CAS movie (full version)" by Jeffrey Hangst. Each result includes a placeholder image (200 x 200), a "My label" button, and a "Powered by HTML.COM" watermark.

At the top right of the search results, there is a "Found 3573" indicator, a "results sorted by" dropdown menu (set to "Newest"), a "desc" dropdown menu, and a "Show 10 results per page" dropdown menu.

# Getting help

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CERN

# Where and how to get help?

- ## Getting help

Didn't find a solution to your problem the Invenio documentation? Here's how you can get in touch with other users and developers:

### **Forum/Knowledge base**

- <https://github.com/inveniosoftware/troubleshooting>

Ask questions or browse answers to existing questions.

### **Chatroom**

- <https://gitter.im/inveniosoftware/invenio>

Probably the fastest way to get a reply is to join our chatroom. Here most developers and maintainers of Invenio hangout during their regular working hours.

### **GitHub**

- <https://github.com/inveniosoftware>

# Where and how to get help?



Invenio Digital Library  
Framework.

## Navigation

[Overview](#)

[Quickstart](#)

[Build a repository](#)

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models](#)

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records](#)

[Securing your instance](#)

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## Invenio v3

**Open Source framework for large-scale digital repositories.**

[pypi](#) [v3.1.0](#) [license](#) [MIT](#) [build](#) [passing](#) [gitter](#) [join chat](#)

Invenio is like a Swiss Army knife of battle-tested, safe and secure modules providing you with all the features you need to run a trusted digital repository.

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# Where and how to get help?



## Invenio-App

WSGI, Celery and CLI applications for Invenio flavours.

### Navigation

Installation

Configuration

Usage

API Docs

Contributing

Changes

License

Contributors

invenio-app@PyPI

invenio-app@GitHub

### Quick search

Go

## Invenio-App

license MIT build passing coverage 98% pypi v1.1.0

WSGI, Celery and CLI applications for Invenio flavours.

Further documentation is available on <https://invenio-app.readthedocs.io/>

## User's Guide

This part of the documentation will show you how to get started in using Invenio-App.

- Installation
- Configuration
- Usage
  - Setting up your instance
  - Applications
  - Deployment

## API Reference

If you are looking for information on a specific function, class or method, this part of the documentation is for you.

- API Docs

**Community**

# Roadmap

## Current

What we work on now

### Development

#### Invenio v3.1 Release

- Webpack and improved docker support.
- Scheduled for release in March 2019.

### Community

#### Invenio User Group Workshop 2019 and Invenio v3 Training Bootcamp

- Plan and prepare Invenio v3 Training Bootcamp @ CERN.
- Plan and prepare Invenio User Group Workshop 2019 (IUGW2019) to be held at Open Repositories 2019 in Hamburg.

### Development

#### Files Bundle

Document and prepare final releases of the following modules:

- Invenio-Files-REST
- Invenio-Records-Files
- Invenio-Previewer

## Near-term

What we plan work on next

### Development

#### Statistics Bundle

Document and prepare final releases of the following modules:

- Invenio-Stats
- Invenio-Queues
- COUNTER-Robots

### Development

#### Invenio v3.2 Release

Files, Statistics bundles. Scheduled for release in mid-2019.

### Development

#### Internationalization (I18N)

- Translate all v3.0 Invenio modules into at least one other language.
- Develop translation workflow into package release process.

## Future

What we investigate

### Development

#### Deposit Bundle

### Development

#### Invenio RDM Flavour

Invenio Research Data Management (RDM) system based on Zenodo.

Funded via the CERN Knowledge Transfer Fund and collaborating institutes.

### Interoperability

#### COAR Next Generation Repositories (NGR)

- SWORD3
- ResourceSync
- Signposting
- COUNTER
- SUSHI

See <http://ngr.coar-repositories.org/>

(with Japan National Institute of Informatics)

# Resources

- Releasing, documenting, ....:
  - Every 3-months: 14-day sprint (~15 people)
- New features:
  - 7 services @ CERN developing new features.



# Maintenance

- Architects: Long-term contributors (merge access everywhere)
- Maintainers: Significant contributions (merge access on specific repositories)
- Serving the community

# Maintenance policy

## End of life dates

<b>Release</b>	<b>Earliest EOL Date</b>	<b>Maintained until</b>
v3.1.0	2020-03-31	v3.3.0
v3.0.1	2019-06-07	v3.2.0
v3.0.0	2019-06-07	v3.2.0
v2.x.y	2018-06-07	v3.0.0
v1.x.y	2018-06-07	v3.0.0

# Copyright policy

## Tracking copyright

### Copyright statements

Copyright statements must be included in:

- LICENSE file in the root of the repository.
- Headers of all source code files.

Each copyright holder must have their own copyright statement:

```
Copyright (C) 2015-2018 CERN  
Copyright (C) 2017 TIND
```

### Copyright holders

Each copyright holder **must** be a legal entity.

Copyright is tracked for non-trivial contributions (i.e. creative work). By default we consider anything above 15 lines for a non-trivial contribution. Examples for which we do not track copyright is e.g. fixing a typo or tiny bug fixes.

### Maintainer responsibility

Maintainers are responsible for asking each contributor who is the copyright holder of a given contribution (often, it's the employer who holds the copyright).

### Attribution

Attribution is not tracked via copyright, but via the `AUTHORS` file.

# Copyright policy

## Explicit agreement

### **Contributions only via GitHub**

All contributions must be opened via pull requests on GitHub.

This way contributors have agreed to the GitHub Terms of Use, which states:

“Whenever you make a contribution to a repository containing notice of a license, you license your contribution under the same terms, and you agree that you have the right to license your contribution under those terms.”

# Code of conduct & governance

- Open, considerate, respectful: Over all, we're good to each other.
- Decision making: Strive for consensus.
- Conflict resolution: Product Manager (last resort CERN hierarchy)

# Invenio User Group Workshop 2019

- Open Repositories 2019:
  - June 10th: full day workshop
  - June 11-13th: Conference
- Call for proposals



Questions?