
invenio-sip2 Documentation

Release 0.1.0

UCLouvain

May 06, 2021

Contents

1	User's Guide	3
1.1	Invenio-SIP2 Installation	3
1.2	Configuration	3
1.3	Usage	3
1.4	Example application	3
2	API Reference	5
2.1	API Docs	5
3	Additional Notes	7
3.1	Contributing	7
3.2	Changes	9
3.3	License	9
3.4	Authors	9
	Python Module Index	11
	Index	13

Invenio module that add SIP2 communication for self-check

TODO: Please provide feature overview of module

Further documentation is available on <https://invenio-sip2.readthedocs.io/>

This part of the documentation will show you how to get started in using Invenio-SIP2.

1.1 Invenio-SIP2 Installation

Invenio-SIP2 is on PyPI so all you need is:

```
$ pip install invenio-sip2
```

1.2 Configuration

Invenio module that add SIP2 communication for self-check.

1.3 Usage

CLI run example:

```
invenio selfcheck start -h 127.0.0.1 -p 3004
```

1.4 Example application

First install Invenio-SIP2, setup the application and load fixture data by running:

```
$ pip install -e .[all]
$ cd examples
$ ./app-setup.sh
$ ./app-fixtures.sh
```

Next, start the development server:

```
$ export FLASK_APP=app.py FLASK_DEBUG=1
$ flask run
```

and open the example application in your browser:

```
$ open http://127.0.0.1:5000/
```

To reset the example application run:

```
$ ./app-teardown.sh
```


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

2.1 API Docs

Flask extension for Invenio-SIP2.

```
class invenio_sip2.ext.InvenioSIP2 (app=None)
    Invenio-SIP2 extension.

    Extension initialization.

    init_app (app)
        Flask application initialization.

    init_config (app)
        Initialize configuration.

    load_fixed_field (app)
        Load fixed field configuration.

    load_variable_field (app)
        Load variable field configuration.

    retries_allowed
        Number of retries allowed by the automated circulation system.

    sip2
        Return the SIP2 action machine.

    sip2_current_date
        Get current date from system.

    sip2_message_types
        Message type configuration.
```

support_checkin

Support of checkin by the automated circulation system.

support_checkout

Support of checkout by the automated circulation system.

support_offline_status

Support of offline status by the automated circulation system.

support_online_status

Support of online status by the automated circulation system.

support_renewal_policy

Support of renewal policy by the automated circulation system.

support_status_update

Support of status update by the automated circulation system.

supported_messages

Supported messages by the automated circulation system.

supported_protocol

Supported protocol by the automated circulation system.

timeout_period

Timeout period allowed by the automated circulation system.

2.1.1 Views

Blueprint for Invenio-SIP2.

`invenio_sip2.views.monitoring()`

Render a basic view.

Notes on how to contribute, legal information and changes are here for the interested.

3.1 Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

3.1.1 Types of Contributions

Report Bugs

Report bugs at <https://github.com/lauren-d/invenio-sip2/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to whoever wants to implement it.

Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

Write Documentation

Invenio-SIP2 could always use more documentation, whether as part of the official Invenio-SIP2 docs, in docstrings, or even on the web in blog posts, articles, and such.

Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/lauren-d/invenio-sip2/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

3.1.2 Get Started!

Ready to contribute? Here's how to set up *invenio-sip2* for local development.

1. Fork the *lauren-d/invenio-sip2* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/invenio-sip2.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv invenio-sip2
$ cd invenio-sip2/
$ pip install -e .[all]
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass tests:

```
$ ./run-tests.sh
```

The tests will provide you with test coverage and also check PEP8 (code style), PEP257 (documentation), flake8 as well as build the Sphinx documentation and run doctests.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -s
  -m "component: title without verbs"
  -m "* NEW Adds your new feature."
  -m "* FIX Fixes an existing issue."
  -m "* BETTER Improves and existing feature."
  -m "* Changes something that should not be visible in release notes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

3.1.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests and must not decrease test coverage.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring.
3. The pull request should work for Python 2.7, 3.5 and 3.6. Check https://travis-ci.org/lauren-d/invenio-sip2/pull_requests and make sure that the tests pass for all supported Python versions.

3.2 Changes

Version 0.1.0 (released TBD)

- Base of automated circulation system.

3.3 License

Note: In applying this license, CERN does not waive the privileges and immunities granted to it by virtue of its status as an Intergovernmental Organization or submit itself to any jurisdiction.

INVENIO-SIP2 Copyright (C) 2020 UCLouvain

This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, version 3 of the License.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Affero General Public License for more details.

You should have received a copy of the GNU Affero General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

3.4 Authors

Invenio module that add SIP2 communication for self-check

- Laurent Dubois (UCLouvain) <laurent.dubois@uclouvain.be>

i

`invenio_sip2.config`, [3](#)
`invenio_sip2.ext`, [5](#)
`invenio_sip2.views`, [6](#)

I

`init_app()` (*invenio_sip2.ext.InvenioSIP2 method*), 5
`init_config()` (*invenio_sip2.ext.InvenioSIP2 method*), 5
`invenio_sip2.config` (*module*), 3
`invenio_sip2.ext` (*module*), 5
`invenio_sip2.views` (*module*), 6
`InvenioSIP2` (*class in invenio_sip2.ext*), 5

L

`load_fixed_field()` (*invenio_sip2.ext.InvenioSIP2 method*), 5
`load_variable_field()` (*invenio_sip2.ext.InvenioSIP2 method*), 5

M

`monitoring()` (*in module invenio_sip2.views*), 6

R

`retries_allowed` (*invenio_sip2.ext.InvenioSIP2 attribute*), 5

S

`sip2` (*invenio_sip2.ext.InvenioSIP2 attribute*), 5
`sip2_current_date` (*invenio_sip2.ext.InvenioSIP2 attribute*), 5
`sip2_message_types` (*invenio_sip2.ext.InvenioSIP2 attribute*), 5
`support_checkin` (*invenio_sip2.ext.InvenioSIP2 attribute*), 5
`support_checkout` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6
`support_offline_status` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6
`support_online_status` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6
`support_renewal_policy` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6

`support_status_update` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6
`supported_messages` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6
`supported_protocol` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6

T

`timeout_period` (*invenio_sip2.ext.InvenioSIP2 attribute*), 6