
invenio-sip2 Documentation

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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/>

USER'S GUIDE

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.

<i>SIP2_DATASTORE_HANDLER</i>	datastore, default: <i>Sip2RedisDatastore</i>
<i>SIP2_DATASTORE_REDIS_PREFIX</i>	Prefix for redis keys, default <i>sip2</i>
<i>SIP2_DATASTORE_REDIS_URL</i>	Redis Datastore URL
<i>SIP2_MESSAGE_ACTIONS</i>	Dictionary of all selfcheck actions.
<i>SIP2_REMOTE_ACTION_HANDLERS</i>	Dictionary of remote action handlers. See example below.
<i>SIP2_MESSAGE_TYPES</i>	Define all message types conforming to SIP2 protocol.
<i>SIP2_FIXED_FIELD_DEFINITION</i>	All fixed field available.
<i>SIP2_VARIABLE_FIELD_DEFINITION</i>	All variable field available.

`invenio_sip2.config.SIP2_DATASTORE_HANDLER`

Add the preferred datastore adaptor.

Provided adaptor by invenio-sip2 are:

.. seealso:: `:py:class:`~invenio_sip2.datastore.redis.RedisSip2Datastore``

Each custom handler actions must be defined in the `SIP2_ACTIONS_HANDLERS` dictionary, where the keys are the application names and the values the configuration parameters for the application.

```
SIP2_REMOTE_ACTION_HANDLERS = dict(
    myapp=dict(
        # configuration values for myapp ...
    ),
)
```

The application name is used to start invenio-sip2 server and call customized handlers.

1.2.1 Remote action handlers

Handlers allow customizing endpoints for each selfcheck actions.

Configuration of a single remote application is a dictionary with the following keys:

- `login_handler` - Import path to login selfcheck callback handler.
- `logout_handler` - Import path to logout selfcheck callback handler.
- `system_status_handler` - Import path to automated system status callback handler.
- `patron_handlers` - A dictionary of import path to patron callback handler. - `validate_patron` - Import path to validate patron callback handler. - `authorize_patron` - Import path to authorize patron callback handler. - `enable_patron` - Import path to enable patron callback handler. - `patron_status` - Import path to patron status callback handler. - `account` - Import path to retrieve patron account callback handler.
- `item_handlers` - A dictionary of import path to item callback handler. - `item` - Import path to retrieve item callback handler.
- `circulation_handlers` - A dictionary of import path to circulation callback handler. - `checkout` - Import path to checkout item callback handler. - `checkin` - Import path to checkin item callback handler. - `hold` - Import path to hold item callback handler. - `renew` - Import path to renew item callback handler. - `renew_all` - Import path to renew_all items callback handler.

```
SIP2_REMOTE_ACTION_HANDLERS = dict(
    app=dict(
        login_handler="...",
        logout_handler="...",
        system_status_handler="...",
        patron_handlers=dict(
            validate_patron="...",
            authorize_patron="...",
            enable_patron="...",
            patron_status="...",
            account="...",
        ),
        item_handlers=dict(
            item="..."
        ),
        circulation_handlers=dict(
            checkout="...",
            checkin="...",
            hold="...",
            renew="...",
        )
    )
)
```

```
invenio_sip2.config.BABEL_DEFAULT_LANGUAGE = 'en'
    Default language
```

```
invenio_sip2.config.SIP2_CIRCULATION_DATE_FORMAT = '%Y%m%d %H%M%S'
    SIP2 date format for circulation.
```

```
invenio_sip2.config.SIP2_DATE_FORMAT = '%Y%m%d %H%M%S'
    SIP2 date format for transaction.
```


`invenio_sip2.config.SIP2_DEFAULT_LANGUAGE = 'en'`
Default SIP2 language

`invenio_sip2.config.SIP2_DEFAULT_SECURITY_MARKER = '00'`
SIP2 default security marker type.

`invenio_sip2.config.SIP2_ERROR_DETECTION = True`
Enable error detection on message.

`invenio_sip2.config.SIP2_LINE_TERMINATOR = '\r'`
Message line separator.

`invenio_sip2.config.SIP2_LOGGING_CONSOLE = True`
Enable logging to the console.

`invenio_sip2.config.SIP2_LOGGING_CONSOLE_LEVEL = 'INFO'`
Console logging level.

All requests and responses will be written to the console if the level is on info mode. Otherwise, they will not be logged.

`invenio_sip2.config.SIP2_LOGGING_FS_BACKUPCOUNT = 5`
Number of rotated log files to keep.

`invenio_sip2.config.SIP2_LOGGING_FS_LEVEL = 'INFO'`
Console logging level.

Defaults to write all requests and responses.

`invenio_sip2.config.SIP2_LOGGING_FS_LOGFILE = None`
Enable logging to the filesystem.

A valid filesystem path is required to enable logging.

`invenio_sip2.config.SIP2_LOGGING_FS_MAXBYTES = 104857600`
Maximum size of logging file. Default: 100MB.

`invenio_sip2.config.SIP2_PERMISSIONS_FACTORY(action)`
Define factory permissions.

`invenio_sip2.config.SIP2_PROTOCOL = '2.00'`
SIP2 protocol version.

`invenio_sip2.config.SIP2_REMOTE_ACTION_HANDLERS = {}`
Configuration of remote handlers.

`invenio_sip2.config.SIP2_RETRIES_ALLOWED = 10`
Number of retries allowed.

`invenio_sip2.config.SIP2_SOCKET_BUFFER_SIZE = '1024'`
Socket buffer size.

`invenio_sip2.config.SIP2_SUPPORT_CHECKIN = True`
Support check in items.

`invenio_sip2.config.SIP2_SUPPORT_CHECKOUT = True`
Support check out items.

`invenio_sip2.config.SIP2_SUPPORT_OFFLINE_STATUS = True`
Support off line operation.

`invenio_sip2.config.SIP2_SUPPORT_ONLINE_STATUS = True`
Support online status send by automatic circulation system.

```
invenio_sip2.config.SIP2_SUPPORT_RENEWAL_POLICY = True
    Support patron renewal requests as a policy.

invenio_sip2.config.SIP2_SUPPORT_STATUS_UPDATE = True
    Support patron status updating by the selfcheck.

invenio_sip2.config.SIP2_TEXT_ENCODING = 'UTF-8'
    Message text charset encoding.

invenio_sip2.config.SIP2_TIMEOUT_PERIOD = 10
    Server timeout.
```

1.3 Usage

Start SIP2 server with CLI example:

```
$ invenio selfcheck start <server_name> -h 127.0.0.1 -p 3004 -r your-remote-app
```

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
```

API REFERENCE

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.

    add_console_handler(app)
        Add console handler to logger.

    add_fs_handler(app)
        Add file handler to logger.

    classmethod get_logging_formatter()
        Return logging formatter.

    init_app(app)
        Flask application initialization.

    init_config(app)
        Initialize configuration.

    property retries_allowed
        Number of retries allowed by the automated circulation system.

    property sip2
        Return the SIP2 action machine.

    property sip2_current_date
        Get current date from system.

    property sip2_handlers
        Return the SIP2 handler machine.

    property sip2_language
        Get default language from system.

    property sip2_message_types
        Message type configuration.

    property support_checkin
        Support of checkin by the automated circulation system.
```

property support_checkout

Support of checkout by the automated circulation system.

property support_offline_status

Support of offline status by the automated circulation system.

property support_online_status

Support of online status by the automated circulation system.

property support_renewal_policy

Support of renewal policy by the automated circulation system.

property support_status_update

Support of status update by the automated circulation system.

supported_messages(*remote_app*)

Supported messages by the automated circulation system.

property supported_protocol

Supported protocol by the automated circulation system.

property timeout_period

Timeout period allowed by the automated circulation system.

invenio_sip2.ext.load_fixed_field(*app*)

Load fixed field configuration.

invenio_sip2.ext.load_variable_field(*app*)

Load variable field configuration.

2.1.1 Actions

Invenio-SIP2 custom actions.

```
class invenio_sip2.actions.actions.AutomatedCirculationSystemStatus(command, response,
                                                                    **kwargs)
```

Action to get status from automated circulation system.

Init action object.

```
execute(message, client)
```

Execute action.

```
class invenio_sip2.actions.actions.BlockPatron(command, response, **kwargs)
```

Action to block patron.

Init action object.

```
execute(message, client, **kwargs)
```

Execute action.

```
class invenio_sip2.actions.actions.Checkin(command, response, **kwargs)
```

Action to checkin an item.

Init action object.

```
execute(message, client, **kwargs)
```

Execute checkin action.

```
class invenio_sip2.actions.actions.Checkout(command, response, **kwargs)
```

Action to checkout an item.

Init action object.

execute(*message, client, **kwargs*)
Execute checkout action.

class invenio_sip2.actions.actions.**EndPatronSession**(*command, response, **kwargs*)
Action to end patron session on automated circulation system.

Init action object.

execute(*message, client*)
Execute action.

class invenio_sip2.actions.actions.**FeePaid**(*command, response, **kwargs*)
Action to paid fee.

Init action object.

execute(*message, client, **kwargs*)
Execute action.

class invenio_sip2.actions.actions.**Hold**(*command, response, **kwargs*)
Action to hold an item.

Init action object.

execute(*message, client, **kwargs*)
Execute hold action.

class invenio_sip2.actions.actions.**ItemInformation**(*command, response, **kwargs*)
Action to get item information from automated circulation system.

Init action object.

execute(*message, client*)
Execute action.

class invenio_sip2.actions.actions.**ItemStatusUpdate**(*command, response, **kwargs*)
Action to update item status.

Init action object.

execute(*message, client, **kwargs*)
Execute action.

class invenio_sip2.actions.actions.**PatronEnable**(*command, response, **kwargs*)
Action to enable patron on automated circulation system.

Init action object.

execute(*message, client*)
Execute action.

class invenio_sip2.actions.actions.**PatronInformation**(*command, response, **kwargs*)
Action to get patron information from automated circulation system.

Init action object.

execute(*message, client*)
Execute action.

class invenio_sip2.actions.actions.**PatronStatus**(*command, response, **kwargs*)
Action to get patron status from automated circulation system.

Init action object.

execute(*message, client*)
Execute action.

```
class invenio_sip2.actions.actions.Renew(command, response, **kwargs)
    Action to renew an item.

    Init action object.

    execute(message, client, **kwargs)
        Execute checkout action.

class invenio_sip2.actions.actions.RenewAll(command, response, **kwargs)
    Action to renew all items.

    Init action object.

    execute(message, client, **kwargs)
        Execute action.

class invenio_sip2.actions.actions.RequestResend(command)
    Action to resend last message.

    Init action object.

    execute(message, client)
        Execute action.

class invenio_sip2.actions.actions.SelfCheckLogin(command, response, **kwargs)
    Action to selfcheck login.

    Init action object.

    execute(message, **kwargs)
        Execute action.
```

2.1.2 Records API

API for manipulating the client.

```
class invenio_sip2.records.record.Client(data, **kwargs)
    class for selfcheck client.

    Initialize instance with dictionary data.

    Parameters data – Dict with record metadata.

    clear_patron_session()
        Shortcut to library name.

    get_current_patron_session()
        Shortcut to patron session.

    get_key()
        Get generated key for Client object.

    get_server()
        Get server object.

    property institution_id
        Shortcut to institution id.

    property is_authenticated
        Shortcut to check if the selfcheck client is authenticated.

    property last_request_message
        Shortcut to user id.
```

property last_response_message

Shortcut to user id.

property last_sequence_number

Shortcut to user id.

property library_language

Shortcut for library language.

property library_name

Shortcut to library name.

property remote_app

Shortcut for remote app.

property server_id

Get server identifier.

property terminal

Shortcut to terminal.

property transaction_user_id

Shortcut to user id.

class invenio_sip2.records.record.Server(data, **kwargs)

class for SIP2 server.

Initialize instance with dictionary data.

Parameters data – Dict with record metadata.

clear_all_clients()

Clear all clients.

classmethod create(data, id_=None, **kwargs)

Create record.

Parameters

- data – Dict with metadata.
- id – Specify a UUID to use for the new record.

delete()

Delete server and all attached clients.

down()

Set server status to *Down* and clear all clients data.

classmethod find_server(**kwargs)

Find server depending kwargs.

get_clients()

Return clients.

property is_running

Check if server is running.

property number_of_clients

Shortcut for number of clients.

up()

Set server status to *running* and clear all clients data.

class invenio_sip2.records.record.Sip2RecordMetadata(*data*, ***kwargs*)

Sip2RecordMetadata class.

Initialize instance with dictionary data.

Parameters *data* – Dict with record metadata.

classmethod count()

Return number of all records based on record type.

classmethod create(*data*, *id_=None*, ***kwargs*)

Create record.

Parameters

- *data* – Dict with metadata.
- *id* – Specify a UUID to use for the new record.

delete()

Delete record by uuid.

dumps(***kwargs*)

Return pure Python dictionary with record metadata.

classmethod get_all_records()

Get all records.

get_key()

Get generated key for Sip2RecordMetadata object.

classmethod get_record_by_id(*id_*)

Get record by uuid.

property id

Shortcut for id.

search(*query='*'*, *index_type=None*, *filter_query=None*)

Search record by query.

update(*data*)

Update instance with dictionary data.

Parameters *data* – Dict with metadata.

2.1.3 Models

Models for Invenio-SIP2.

class invenio_sip2.models.PatronStatus

Class to define patron status.

Constructor.

add_patron_status_type(*patron_status_type*)

Add patron status.

Parameters *patron_status_type* – Enum of patron status type

Add *patron_status_type* indicates that the condition is true. raise exception if patron status type does not exist.

class invenio_sip2.models.PatronStatusTypes(*value*)

Enum class to list all possible patron status types.


```

CARD_REPORTED_LOST = 'card_reported_lost'
CHARGE_PRIVILEGES_DENIED = 'charge_privileges_denied'
EXCESSIVE_OUTSTANDING_FEES = 'excessive_outstanding_fees'
EXCESSIVE_OUTSTANDING_FINES = 'excessive_outstanding_fines'
HOLD_PRIVILEGES_DENIED = 'hold_privileges_denied'
RECALL_OVERDUE = 'recall_overdue'
RECALL_PRIVILEGES_DENIED = 'recall_privileges_denied'
RENEWAL_PRIVILEGES_DENIED = 'renewal_privileges_denied'
TOO_MANY_CLAIMS_OF_ITEMS_RETURNED = 'too_many_claims_of_items_returned'
TOO_MANY_ITEMS_BILLED = 'too_many_items_billed'
TOO_MANY_ITEMS_CHARGED = 'too_many_items_charged'
TOO_MANY_ITEMS_LOST = 'too_many_items_lost'
TOO_MANY_ITEMS_OVERDUE = 'too_many_items_overdue'
TOO_MANY_RENEWALS = 'too_many_renewals'

```

```

class invenio_sip2.models.SelfcheckCheckin(permanent_location, checkin=False, alert=False,
                                           magnetic_media='unknown', resensitize='unknown',
                                           **kwargs)

```

Class representing checkin handler response.

Constructor.

:param permanent_location - permanent_location of the item :param checkin - checkin operation is success or not
:param alert - indicate if the selcheck will generate sound alert :param magnetic_media - indicate the presence of magnetic media :param resensitize - resensitize an item ? :param kwargs - optional fields

property has_magnetic_media

Shortcut for desensitize.

property is_success

Shortcut for checkin.

property resensitize

Shortcut for resensitize.

property sound_alert

Shortcut for alert.

```

class invenio_sip2.models.SelfcheckCheckout(title_id, checkout=False, renewal=False,
                                           magnetic_media='unknown', desensitize='unknown',
                                           **kwargs)

```

Class representing checkout handler response.

Constructor.

:param title_id - title_id (e.g. title, identifier, ...) :param checkout - checkout operation is success or not :param renewal - renewal operation is success or not :param magnetic_media - indicate the presence of magnetic media
:param desensitize - desensitize an item ? :param kwargs - optional fields

property desensitize

Shortcut for desensitize.

property due_date

Shortcut for due date.

property has_magnetic_media

Shortcut for desensitize.

property is_renewal

Shortcut for renewal ok.

property is_success

Shortcut for checkout ok.

class invenio_sip2.models.SelfcheckCirculationStatus

Class to handle all available circulation status of an item.

AVAILABLE = '03'

CHARGED = '04'

CHARGED_RECALL = '05'

CLAIMED_RETURNED = '11'

IN_PROCESS = '06'

IN_TRANSIT = '10'

LOST = '12'

MISSING = '13'

ON_ORDER = '02'

OTHER = '01'

RECALLED = '07'

WAITING_ON_HOLD_SHELF = '08'

WAITING_TO_RESHELF = '09'

class invenio_sip2.models.SelfcheckEnablePatron(*patron_id, institution_id, patron_name="",
patron_status=None, language='und', **kwargs*)

Class representing patron information handler response.

Constructor.

:param patron_id - patron identifier (e.g. id, barcode, ...) :param institution_id - institution id (or code) of the patron :param patron_name - full name of the patron :param patron_status - status of the patron :param language - iso-639-2 language :param kwargs - optional fields

class invenio_sip2.models.SelfcheckFeeType

Class to handle all available fee type.

ADMINISTRATIVE = '02'

COMPUTER_ACCESS_CHARGE = '08'

DAMAGE = '03'

HOLD_FEE = '09'

OTHER = '01'

OVERDUE = '04'

PROCESSING = '05'

RENTAL = '06'

REPLACEMENT = '07'

class invenio_sip2.models.**SelfcheckHold**(*hold=False, available=False, **kwargs*)

Class representing hold handler response.

Constructor.

:param hold - hold operation is success or not :param available - item available or not :param kwargs - optional fields

property is_available

Shortcut for available.

property is_success

Shortcut for hold ok.

class invenio_sip2.models.**SelfcheckItemInformation**(*item_id, title_id=None, circulation_status=None, fee_type=None, security_marker=None, **kwargs*)

Class representing item information handler response.

Constructor.

:param patron_id - patron identifier (e.g. id, barcode, ...) :param patron_name - full name of the patron :param institution_id - institution id (or code) of the patron :param language - iso-639-2 language :param kwargs - optional fields

class invenio_sip2.models.**SelfcheckLanguage**(*value*)

Enum class to list all available language.

ARABIC = '016'

BELGIAN = '026'

CANADIAN_FRENCH = '011'

CHINESE = '019'

DANISH = '009'

DUTCH = '005'

ENGLISH = '001'

FINNISH = '007'

FRENCH = '002'

GERMAN = '003'

GREEK = '018'

HEBREW = '013'

ICELANDIC = '025'

ITALIAN = '004'

JAPANESE = '014'

KOREAN = '020'

MALAY = '023'

NORTH_AMERICAN_SPANISH = '021'

```
NORWEGIAN = '012'  
POLISH = '017'  
PORTUGUESE = '010'  
RUSSIAN = '015'  
SPANISH = '008'  
SWEDISH = '006'  
TAIWANESE = '027'  
TAMIL = '022'  
UNITED_KINGDOM = '024'  
UNKNOWN = '000'  
  
chi = '019'  
dan = '009'  
dut = '005'  
eng = '001'  
fin = '007'  
fra = '002'  
fre = '002'  
ger = '003'  
gre = '018'  
heb = '013'  
ice = '025'  
isl = '025'  
ita = '004'  
jpn = '014'  
kor = '020'  
may = '023'  
msa = '023'  
nor = '012'  
pol = '017'  
por = '010'  
rus = '015'  
spa = '008'  
swe = '006'  
tam = '022'  
und = '000'  
zho = '019'
```

```
class invenio_sip2.models.SelfcheckMediaType
```

Class to handle all available media type.

AUDIO = '004'

BOOK = '001'

BOOK_WHIT_AUDIO_TAPE = '010'

BOOK_WHIT_CD = '009'

BOOK_WHIT_DISKETTE = '008'

BOUND_JOURNAL = '003'

CD_OR_CDROM = '006'

DISKETTE = '007'

MAGAZINE = '002'

OTHER = '000'

VIDEO = '005'

```
class invenio_sip2.models.SelfcheckPatronInformation(patron_id, institution_id, patron_name="",
                                                    patron_status=None, language='und',
                                                    **kwargs)
```

Class representing patron information handler response.

Constructor.

:param patron_id - patron identifier (e.g. id, barcode, ...) :param institution_id - institution id (or code) of the patron :param patron_name - full name of the patron :param patron_status - status of the patron :param language - iso-639-2 language :param kwargs - optional fields

property charged_items_count
Shortcut for charged items count.

property fine_items_count
Shortcut for fine items count.

property hold_items_count
Shortcut for hold items count.

property overdue_items_count
Shortcut for overdue items count.

property patron_id
Shortcut for patron pid.

property patron_name
Shortcut for patron pid.

property recall_items_count
Shortcut for recall items count.

property unavailable_items_count
Shortcut for unavailable items count.

```
class invenio_sip2.models.SelfcheckPatronStatus(patron_id, institution_id, patron_name="",
                                                    patron_status=None, language='und', **kwargs)
```

Class representing patron information handler response.

Constructor.

:param patron_id - patron identifier (e.g. id, barcode, ...) :param institution_id - institution id (or code) of the patron :param patron_name - full name of the patron :param patron_status - status of the patron :param language - iso-639-2 language :param kwargs - optional fields

```
class invenio_sip2.models.SelfcheckRenew(title_id, success=False, renewal=False,
                                         magnetic_media='unknown', desensitize='unknown',
                                         **kwargs)
```

Class representing renew handler response.

Constructor.

Parameters

- **title_id** – title_id (e.g. title, identifier, ...)
- **renew** – renew operation is success or not should be set to True if the ACS renew the item. should be set to 0 if the ACS did not renew the item.
- **renewal** – renewal operation. should be set to True if the patron requesting to renew the item already has the item renewed. should be set to False if the item is not already renewed.
- **magnetic_media** – indicate the presence of magnetic media
- **desensitize** – desensitize an item ?
- **kwargs** – optional fields

property desensitize
Shortcut for desensitize.

property due_date
Shortcut for due date.

property has_magnetic_media
Shortcut for desensitize.

property is_renewal
Shortcut for renewal ok.

property is_success
Shortcut for success operation.

```
class invenio_sip2.models.SelfcheckSecurityMarkerType
    Class to handle all available security marker type.
```

NONE = '01'

OTHER = '00'

TATTLE_TAPE_SECURITY_STRIP = '02'

WHISPHER_TAPE = '03'

```
class invenio_sip2.models.SelfcheckSummary(text)
    Class representing summary.
```

Init.

fields = ['hold_items', 'overdue_items', 'charged_items', 'fine_items',
'recall_items', 'unavailable_items']

is_needed(key)
Check if the given information is needed.

class invenio_sip2.models.SupportedMessages

Class to define supported messages from handler config.

Constructor.

add_supported_message(*handler*)

Add supported message.

```
handlers = ['patron_status', 'checkout', 'checkin', 'block_patron', 'system_status',
            'request_resend', 'login', 'account', 'end_patron_session', 'fee_paid', 'item',
            'item_status_update', 'enable_patron', 'hold', 'renew', 'renew_all']
```

2.1.4 Rest API

API blueprint for Invenio-SIP2.

class invenio_sip2.views.rest.Monitoring

Monitoring class.

classmethod get_clients_by_server_id(*server_id*)

Get list of clients by server id.

classmethod get_number_client_by_server(*server_id*)

Get total number of clients by server.

classmethod get_servers()

Get list of servers.

classmethod status()

Check status for all servers.

invenio_sip2.views.rest.get_clients()

Display all connected clients to server.

invenio_sip2.views.rest.get_server(*server_id*)

Display all running SIP2 servers.

invenio_sip2.views.rest.get_servers()

Display all running SIP2 servers.

invenio_sip2.views.rest.status()

Display status for all SIP2 server.

2.1.5 Views

Blueprint for Invenio-SIP2.

invenio_sip2.views.views.monitoring()

Render a basic view.

ADDITIONAL NOTES

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/inveniosoftware-contrib/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/inveniosoftware-contrib/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 *inveniosoftware-contrib/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 3.6 to 3.9. Check https://travis-ci.org/github/inveniosoftware-contrib/invenio-sip2/pull_requests and make sure that the tests pass for all supported Python versions.

3.2 Changes

Version 0.6.9 (released 2021-07-28) **Bug fix:**

- Fixes invenio-search version.
- Fixes invenio-db version.

Version 0.6.8 (released 2021-07-27) **Minor change:**

- Catches runtime error.
- Uses pydocstyle and pycodestyle.
- Increase code coverage.
- Cleans code.

Version 0.6.7 (released 2021-07-19)

Bug fix:

- Fixes missing conversion of i18n language.
- Fixes date format.

Version 0.6.6 (released 2021-07-14)

Minor changes:

- Defines supported messages from handlers config.

Bug fix:

- Fixes empty patron session.
- Improves i18n language.

Version 0.6.5 (released 2021-07-12)

Minor changes:

- Logs more information for debugging

Version 0.6.4 (released 2021-06-30)

Bug fix:

- Fixes wrong circulation messages response.
- Fixes no such process in command line utilities.

Version 0.6.3 (released 2021-06-15)

Bug fix:

- Fixes error on renew action.

Version 0.6.2 (released 2021-06-14)

Minor changes:

- implement summary for patron information.
- Fixes fixed field wrong length.

Version 0.6.1 (released 2021-06-14)

Minor changes:

- Use invenio-sip2 logger for server error logs.

Version 0.6.0 (released 2021-06-11)

Implemented enhancements:

- Implements request resend action.
- Adds CLI to stop the server.
- Implements sequence number error detection.

Version 0.5.1 (released 2021-05-06)

Minor changes:

- Increase code coverage.
- Updates documentation.
- Cleans and rewrites code.

Version 0.5.0 (released 2021-03-25)

Implemented enhancements:

- Adds datastore to save clients and servers state.
- Adds record metadata management.
- Adds APIs to monitor servers and clients.
- Implements specific logger to log selfcheck requests and server responses.

Version 0.4.0 (released 2020-11-26)

Implemented enhancements:

- Implements Patron status action.
- Moves to github action for continuous Integration.

Fixed bugs:

- Increase code coverage

Version 0.3.0 (released 2020-10-13)

Implemented enhancements:

- Adds Item information action.
- Implements circulation actions

- Adds base of patron session.
- Uses pycountry for language management.

Fixed bugs:

- Missing line terminator to tell to client that all bytes are sent.

Version 0.2.0 (released 2020-08-10)

Implemented enhancements:

- Implements Patron information action.
- Adds Remote ILS handlers configuration.

Version 0.1.0 (released 2020-05-25)

- 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.

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3.4 Authors

Invenio module that add SIP2 communication for self-check

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