
Isogeo Python SDK

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Isogeo

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QUICKSTART

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Author

Julien M. (Isogeo)

Source code

<https://github.com/Isogeo/isogeo-api-py-minsdk/>

Issues

<https://github.com/Isogeo/isogeo-api-py-minsdk/issues>

Updated: 2022-12-05

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

1.1 Installation

```
pip install isogeo-pysdk
```

1.2 Authenticate to the API

1.2.1 Load API credentials from a JSON or INI file

Isogeo delivers API credentials in a JSON file. Its structure depends on the kind of oAuth2 application you are developing. Please refer to the API documentation to know more about different types of oAuth2 application.

For example, here is the JSON structure for a “workgroup” application:

```
{
  "web": {
    "client_id": "python-minimalist-sdk-test-uuid-1a2b3c4d5e6f7g8h9i0j11k12l",
    "client_secret": "application-secret-1a2b3c4d5e6f7g8h9i0j11k12l13m14n15o16p17Q18rS",
    "auth_uri": "https://id.api.isogeo.com/oauth/authorize",
    "token_uri": "https://id.api.isogeo.com/oauth/token"
  }
}
```

The module `isogeo_pysdk.utils` comes with a method to load automatically credentials from JSON and INI files:

```
# load package
from isogeo_pysdk import Isogeo, IsogeoUtils

# instantiate IsogeoUtils as utils
utils = IsogeoUtils()

# load from file
api_credentials = utils.credentials_loader("client_secrets_group.json")
```

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```
# could also be:
# api_credentials = utils.credentials_loader("client_secrets_user.json")
# api_credentials = utils.credentials_loader("client_secrets.ini")

# authenticate your client application
isogeo = Isogeo(client_id=api_credentials.get("client_id"),
                client_secret=api_credentials.get("client_secret")
                )

# get the token
isogeo.connect()
```

Keys of returned dict:

- auth_mode
- client_id
- client_secret
- scopes
- uri_auth
- uri_base
- uri_redirect
- uri_token

1.2.2 Authenticate using OAuth2 Client Credentials Grant ("group application")

This is the OAuth2 Backend Application flow, used by the named "group application" in Isogeo terms.

Supposing secrets are stored as environment variables:

```
# for OAuth2 Backend (Client Credentials Grant) Flow
isogeo = Isogeo(
    auth_mode="group",
    client_id=environ.get("ISOGEO_API_GROUP_CLIENT_ID"),
    client_secret=environ.get("ISOGEO_API_GROUP_CLIENT_SECRET"),
    auto_refresh_url="{}/oauth/token".format(environ.get("ISOGEO_ID_URL")),
    platform=environ.get("ISOGEO_PLATFORM", "qa"),
    max_retries=1,
)

# getting a token
isogeo.connect()
```


1.3 Usage

1.3.1 Manipulate shares

Shares are the features allowing to manage access to metadata catalogs via applications such as GIS plugins or Iso-geo2office.

Get informations about shares (2 methods)

There are several ways to obtain more or less detailed informations about the shares accessible to an API client.

```

from isogeo_pysdk import Isogeo

# authenticate your client application
isogeo = Isogeo(
    client_id=app_id,
    client_secret=app_secret,
    auto_refresh_url=isogeo_token_uri,
)

# get the token
isogeo.connect()

# -- BASIC INFORMATIONS -----
# by making a search
search = isogeo.search(page_size=0, whole_results=0, augment=1) # set augment option on
↳ True
# retrieving shares uuid and name from search tags
shares_basic = [{"{}:{}".format(k, v) for k, v in search.tags.items() if k.startswith(
↳ 'share:')}]
print(shares_basic)

# -- DETAILED INFORMATIONS -----
# through API client attribute
shares_detailed = isogeo._shares
print(shares_detailed)

# properly closing connection
isogeo.close()

```

Get OpenCatalog URL for a share

OpenCatalog is an online metadata browser generated on Isogeo platform. As a third-party application, it can be set or not in a share.

Here is how to check if it's set or not in a share.

```

from isogeo_pysdk import Isogeo

# authenticate your client application
isogeo = Isogeo(

```

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```

    client_id=app_id,
    client_secret=app_secret,
    auto_refresh_url=isogeo_token_uri
)

# get the token
isogeo.connect()

# -- RETRIEVE A SHARE UUID USING SEARCH ROUTE -----
# get a list of detailed informations about shares accessible by the API client
shares = isogeo.share.listing()

# get one share UUID in the list
share_id = shares[0].get("_id")

# -- ONCE SHARE UUID RETRIEVED -----
# make an augmented share request
share_augmented = isogeo.share.get(share_id)

if share_augmented.opencatalog_url() is not None:
    print("OpenCatalog is set: {}".format(share_augmented.opencatalog_url()))
else:
    print("OpenCatalog is not set in this share")

```

Check if a metadata is in a share

With the augmented share, it's also possible to check if a metadata is present within.

```

# -- see above to get augmented share

# get a metadata
search = isogeo.search(
    page_size=1,      # get only one result
    whole_results=0   # do not retrieve the whole application scope
)
# retrieve metadata uuid
md_id = md_search.results[0].get("_id")

# make a search on metadatas accessibles through the share
share_search = isogeo.search(
    share=share_augmented.get("_id"), # filter on the share
    whole_results=1 # retrieve the whole application scope
)
# check if the metadata is in the result
share_mds_ids = [md.get("_id") for md in share_search.results]

if md_id in share_mds_ids:
    print("Metadata is present in this share.")
else:
    print("Not present.")

```

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```
# properly closing connection
isogeo.close()
```

1.3.2 URL Builder for web applications

All examples in this section must be preceded by the following code:

```
from isogeo_pysdk import IsogeoUtils, Isogeo

utils = IsogeoUtils()
# authenticate your client application
isogeo = Isogeo(
    client_id=app_id,
    client_secret=app_secret,
    auto_refresh_url=isogeo_token_uri
)

# get the token
isogeo.connect()
```

Isogeo metadata can be displayed in others web applications. Some webapps are built-in:

- OpenCatalog (oc)
- *Data portal by PixUp (pixup_portal)
- *CSW GetCapabilities (for a share)
- *CSW GetRecords (for a metadata)

It's also possible to register a custom web app (see below).

Get URL to online editor for a metadata

A metadata can only be edited by an authenticated Isogeo user (with editor level at least). A built-in method make it easy to construct it:

```
md = isogeo.metadata.get(md_id="36fde4261bcb4ef2a849d94a50488713")

url = utils.get_edit_url(metadata=md, tab="attributes")
```

Get OpenCatalog URL for a metadata

```
oc_args = {
    "md_id": "36fde4261bcb4ef2a849d94a50488713",
    "share_id": "344d51c3edfb435daf9d98d948fa207e",
    "share_token": "TokenOhDearToken"
}

oc_url = utils.get_view_url(webapp="oc", **oc_args)
```

Get CSW GetCapabilities for a share

```
csw_getcap_args = {
    "share_id": "344d51c3edfb435daf9d98d948fa207e",
    "share_token": "TokenOhDearToken",
}

csw_getcap_url = utils.get_view_url(webapp="csw_getcap", **csw_getcap_args)
```

Get CSW GetRecords for a share

```
csw_getrecords_args = {
    "share_id": "344d51c3edfb435daf9d98d948fa207e",
    "share_token": "TokenOhDearToken",
}

csw_getrecords_url = utils.get_view_url(webapp="csw_getrecords", **csw_getrecords_args)
```

Get CSW GetRecordById for a metadata

```
uuid_md_source = "36fde4261bcb4ef2a849d94a50488713"

csw_getrec_args = {
    "md_uuid_urn": utils.convert_uuid(uuid_md_source, 2),
    "share_id": "344d51c3edfb435daf9d98d948fa207e",
    "share_token": "TokenOhDearToken"
}

csw_getrec_url = utils.get_view_url(webapp="csw_getrec", **csw_getrec_args)
```

Register a custom webapp and get URL

```
# register the web app
utils.register_webapp(
    webapp_name="PPIGE v3",
    webapp_args=["md_id", ],
    webapp_url="https://www.ppige-npdc.fr/portail/geocatalogue?uuid={md_id}"
)
# get url
custom_url_args = {
    "md_id": "36fde4261bcb4ef2a849d94a50488713",
    "share_id": "344d51c3edfb435daf9d98d948fa207e",
    "share_token": "TokenOhDearToken"
}
custom_url = utils.get_view_url(webapp="PPIGE v3", **custom_url_args)
```

1.3.3 Download metadata as XML ISO 19139

In Isogeo, every metadata resource can be downloaded in its XML version (ISO 19139 compliant). The Python SDK package include a shortcut method:

```
from isogeo_pysdk import Isogeo, Metadata

# authenticate your client application
isogeo = Isogeo(
    client_id=app_id,
    client_secret=app_secret,
    auto_refresh_url=isogeo_token_uri
)

# get the token
isogeo.connect()

# search metadata
search_to_be_exported = isogeo.search(
    page_size=10,
    query="type:dataset",
    whole_results=0
)

# loop on results and export
for md in search_to_be_exported.results:
    metadata = Metadata.clean_attributes(md)
    title = metadata.title
    xml_stream = isogeo.metadata.download_xml(metadata)

    with open("{}.xml".format(title), 'wb') as fd:
        for block in xml_stream.iter_content(1024):
            fd.write(block)
```

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```
# properly closing connection
isogeo.close()
```

Others examples:

- Batch export into XML within Isogeo to Office application.
- Batch export into XML in the package sample.

1.3.4 Download hosted data from Isogeo cloud

Administrators and editors can link raw data and docs (.zip, .pdf...) to metadata to allow final users to access the data. To do that, it's possible to upload data to Isogeo cloud (Azure blob storage). Through the API, it's possible to download these data:

```
from isogeo_pysdk import Isogeo

# authenticate your client application
isogeo = Isogeo(
    client_id=app_id,
    client_secret=app_secret,
    auto_refresh_url=isogeo_token_uri
)

# get the token
isogeo.connect()

# search with _include = links and action = download
latest_data_modified = isogeo.search(
    page_size=10,
    order_by="modified",
    whole_results=0,
    query="action:download",
    include=("links",),
)

# parse links and download hosted data recursively
for md in latest_data_modified.results:
    for link in filter(lambda x: x.get("type") == "hosted", md.get("links")):
        dl_stream = isogeo.metadata.links.download_hosted(link=link)
        filename = re.sub(r'[\\"*?:"<>|]', "", dl_stream[1])
        with open(dl_stream[1], "wb") as fd:
            for block in dl_stream[0].iter_content(1024):
                fd.write(block)

# properly closing connection
isogeo.close()
```

Example:

- Batch export hosted data in the package sample.

1.3.5 Add versions to a format

It is necessary to update Isogeo database with new formats versions, so that users can properly fill metadata sheets on app.isogeo.com.

```
from isogeo_pysdk import Isogeo

# -- Authentication using 'user_legacy' flow
# Isogeo client
isogeo = Isogeo(
    auth_mode="user_legacy",
    client_id=api_dev_id,
    client_secret=api_dev_secret,
    auto_refresh_url=isogeo_token_uri
)

# getting a token
isogeo.connect(
    username=isogeo_user_name,
    password=isogeo_user_password,
)

# get a format
fmt_postgis = isogeo.formats.get("postgis")
# add versions to this format
fmt_postgis.versions.extend(li_new_versions)
# update the format with added versions
fmt_postgis.updated = isogeo.formats.update(fmt_postgis)

# properly closing connection
isogeo.close()
```

1.4 isogeo_pysdk

1.4.1 isogeo_pysdk package

This module is an abstraction class about the Isogeo REST API.

<https://www.isogeo.com/>

Subpackages

`isogeo_pysdk.api` package

Submodules

`isogeo_pysdk.api.routes_about` module

Module to easily get versions about Isogeo platform components.

```
class isogeo_pysdk.api.routes_about.ApiAbout(platform='prod', proxies=None, protocol='https',  
                                             isogeo_urls={})
```

Bases: `object`

Routes as methods of Isogeo API used to get platform informations.

`api()`

Get API version.

Return type

`str`

`authentication()`

Get authentication server (ID) version.

Return type

`str`

`database()`

Get database version.

Return type

`str`

`scan()`

Get daemon version.

Return type

`str`

`services()`

Get services.api version.

Return type

`str`

`isogeo_pysdk.api.routes_account` module

Isogeo API v1 - API Routes for Account entities

See: <http://help.isogeo.com/api/complete/index.html>

```
class isogeo_pysdk.api.routes_account.ApiAccount(api_client=None)
```

Bases: `object`

Routes as methods of Isogeo API used to manipulate account (user).

get(*include=('_abilities',)*, *caching=1*)

Get authenticated user account(= profile) informations.

Parameters

- **include** (*tuple*) – additional parts of model to include in response
- **caching** (*bool*) – option to cache the response

Return type

User

memberships()

Returns memberships for the authenticated user.

Example

```
>>> my_groups = isogeo.account.memberships()
>>> print(len(my_groups))
10
>>> groups_where_iam_admin = list(filter(lambda d: d.get("role") == "admin", my_
↳ groups))
>>> print(len(groups_where_iam_admin))
5
>>> groups_where_iam_editor = list(filter(lambda d: d.get("role") == "editor",
↳ my_groups))
>>> print(len(groups_where_iam_editor))
4
>>> groups_where_iam_reader = list(filter(lambda d: d.get("role") == "reader",
↳ my_groups))
>>> print(len(groups_where_iam_reader))
1
```

Return type

list

update(*account*, *caching=1*)

Update authenticated user account(= profile) informations.

Parameters

- **account** (*class*) – user account model object to update
- **caching** (*bool*) – option to cache the response

Return type

User

isogeo_pysdk.api.routes_application module

Isogeo API v1 - API Routes for Applications entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_application.ApiApplication`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate applications.

associate_group(*application, workgroup, force=0*)

Associate a application with a workgroup.

Parameters

- **application** (`Application`) – Application model object to update
- **workgroup** (`Workgroup`) – object to associate
- **force** (`bool`) – option to force association with multiple groups changing the *canHaveManyGroups* property

Return type

`tuple`

create(*application, check_exists=1*)

Add a new application to Isogeo.

Parameters

check_exists (`int`) – check if a application already exists inot the workgroup:

- 0 = no check
- 1 = compare name [DEFAULT]

Parameters

application (`class`) – Application model object to create

Return type

`Application`

delete(*application_id*)

Delete a application from Isogeo database.

Parameters

application_id (`str`) – identifier of the resource to delete

dissociate_group(*application, workgroup*)

Removes the association between the specified group and the specified application.

Parameters

- **application** (`Application`) – Application model object to update
- **workgroup** (`Workgroup`) – object to associate

Return type

`tuple`

exists(*application_id*)

Check if the specified application exists and is available for the authenticated user.

Parameters

application_id (*str*) – identifier of the application to verify

Return type

bool

get(*application_id*, *include*=('_abilities', 'groups'))

Get details about a specific application.

Parameters

- **application_id** (*str*) – application UUID
- **include** (*tuple*) – additional subresource to include in the response

Return type

Application

listing(*workgroup_id*=None, *include*=('_abilities',), *caching*=1)

Get all applications which are accessible by the authenticated user OR applications for a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup. If *None*, then list applications for the authenticated user
- **include** (*tuple*) – additional subresource to include in the response.
- **caching** (*bool*) – option to cache the response

Return type

list

update(*application*, *caching*=1)

Update a application owned by a workgroup.

Parameters

- **application** (*class*) – Application model object to update
- **caching** (*bool*) – option to cache the response

Return type

Application

workgroups(*application_id*=None)

Get all groups associated with an application.

Parameters

application_id (*str*) – identifier of the application

Return type

list

isogeo_pysdk.api.routes_catalog module

Isogeo API v1 - API Routes for Catalogs entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_catalog.ApiCatalog`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate catalogs.

associate_metadata(*metadata, catalog*)

Associate a metadata with a catalog.

If the specified catalog is already associated, the response is still 204.

Parameters

- **metadata** (`Union[Metadata, Tuple[Metadata, ...]]`) – metadata object to update
- **catalog** (`Catalog`) – catalog model object to associate

Example

```
isogeo.catalog.associate_metadata(  
    isogeo.metadata.get(METADATA_UUID),  
    isogeo.catalog.get(WORKGROUP_UUID, CATALOG_UUID)  
)  
  
<Response [204]>
```

Return type

`Response`

create(*workgroup_id, catalog, check_exists=1*)

Add a new catalog to a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **catalog** (*class*) – Catalog model object to create
- **check_exists** (*bool*) – check if a catalog already exists into the workgroup:
 - 0 = no check
 - 1 = compare name [DEFAULT]

Returns

the created catalog or False if a similar catalog already exists or a tuple with response error code

Return type

`Catalog`

delete(*workgroup_id, catalog_id*)

Delete a catalog from Isogeo database.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup

- **catalog_id** (*str*) – identifier of the resource to delete

dissociate_metadata(*metadata, catalog*)

Removes the association between a metadata and a catalog.

If the specified catalog is not associated, the response is 404.

Parameters

- **metadata** (*Metadata*) – metadata object to update
- **catalog** (*Catalog*) – catalog model object to associate

Return type

Response

exists(*workgroup_id, catalog_id*)

Check if the specified catalog exists and is available for the authenticated user.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **catalog_id** (*str*) – identifier of the catalog to verify

Return type

bool

get(*workgroup_id, catalog_id, include=('_abilities', 'count')*)

Get details about a specific catalog.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **catalog_id** (*str*) – catalog UUID
- **include** (*list*) – additional subresource to include in the response

Return type

Catalog

listing(*workgroup_id=None, include=('_abilities', 'count'), caching=1*)

Get workgroup catalogs.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **include** (*tuple*) – additional subresource to include in the response
- **caching** (*bool*) – option to cache the response

Return type

list

Example

```
# retrieve the catalogs of workgroup
wg_catalogs = isogeo.catalog.listing(
    workgroup_id=isogeo_workgroup._id,
    include=None
)
# filter on catalogs with the Sacn checked
```

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```
for cat in wg_catalogs:
    if cat.get("$scan", False):
        print(cat.get("name"))
```

metadata(*metadata_id*)

List metadata's catalogs with complete information.

Parameters

metadata_id (*str*) – metadata UUID

Returns

the list of catalogs associated with the metadata

Return type

list

shares(*catalog_id*)

Returns shares for the specified catalog.

Parameters

catalog_id (*str*) – catalog UUID

Returns

list of Shares containing the catalog

Return type

list

statistics(*catalog_id*)

Returns statistics for the specified catalog.

Parameters

catalog_id (*str*) – catalog UUID

Return type

dict

statistics_by_tag(*catalog_id, tag*)

Returns statistics on a specific tag for the specified catalog.

Be careful: if an invalid character is present into the response (e.g. `contact.name = 'bureau GF-3A'`), a `ConnectionError / ReadTimeout` will be raised.

Parameters

- **catalog_id** (*str*) – catalog UUID
- **tag** (*str*) – tag name. Must be one of: `catalog`, `coordinate-system`, `format`, `keyword:inspire-theme`, `keyword`, `owner`

Return type

dict

update(*catalog, caching=1*)

Update a catalog owned by a workgroup.

Parameters

- **catalog** (*class*) – Catalog model object to update
- **caching** (*bool*) – option to cache the response

Return type
Catalog

isogeo_pysdk.api.routes_condition module

Isogeo API v1 - API Routes for Conditions entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_condition.ApiCondition`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate conditions.

create(*metadata, condition*)

Add a new condition (license + specific description) to a metadata.

Parameters

- **metadata** (`Metadata`) – metadata object to update
- **condition** (`Condition`) – condition to create

Return type

Condition

delete(*metadata, condition*)

Removes a condition from a metadata.

Parameters

- **metadata** (`Metadata`) – metadata object to update
- **condition** (`Condition`) – license model object to associate

Return type

Response

get(*metadata_id, condition_id*)

Get details about a specific condition.

Parameters

- **metadata_id** (*str*) – identifier of the owner workgroup
- **condition_id** (*str*) – condition UUID

Return type

Condition

listing(*metadata_id*)

List metadata's conditions with complete information.

Parameters

metadata_id (*str*) – metadata UUID

Returns

the list of conditions associated with the metadata

Return type

list

isogeo_pysdk.api.routes_conformity module

Isogeo API v1 - API Routes for Conformity entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_conformity.ApiConformity`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate conformity with specifications.

create(*metadata, conformity*)

Add a new conformity (specification + specific conformant) to a metadata.

Parameters

- **metadata** (`Metadata`) – metadata object to update
- **conformity** (`Conformity`) – conformity to create

Return type

`Conformity`

delete(*metadata, conformity=None, specification_id=None*)

Removes a conformity from a metadata.

Parameters

- **metadata** (`Metadata`) – metadata object to update
- **conformity** (`Conformity`) – specification model object to associate. If empty, the `specification_id` must be passed.
- **specification_id** (`Specification`) – specification model object to associate. If empty, the conformity must be passed.

Return type

`Response`

listing(*metadata_id*)

List metadata's conformity specifications with complete information.

Parameters

metadata_id (*str*) – metadata UUID

Returns

the list of specifications + conformity status associated with the metadata

Return type

`list`

isogeo_pysdk.api.routes_contact module

Isogeo API v1 - API Routes for Contacts entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_contact.ApiContact`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate contacts.

associate_metadata(*metadata, contact, role='pointOfContact'*)

Associate a metadata with a contact.

If the specified contact is already associated, the response is still 200.

Parameters

- **metadata** (*Metadata*) – metadata object to update
- **contact** (*Contact*) – contact model object to associate
- **role** (*str*) – role to assign to the contact

Example

```
# retrieve a metadata
md = isogeo.metadata.get(METADATA_UUID)
# retrieve a contact
ctct = isogeo.contact.get(CONTACT_UUID)
# associate a contact to a metadata
isogeo.contact.associate_metadata(metadata = md, contact = ctct)
```

Return type

Response

create(*workgroup_id, contact, check_exists=1*)

Add a new contact to a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **contact** (*class*) – Contact model object to create
- **check_exists** (*int*) – check if a contact already exists inot the workgroup:
 - 0 = no check
 - 1 = compare name [DEFAULT]
 - 2 = compare email

Returns

the created contact or the existing contact if case oof a matching name or email or a tuple with response error code

Return type

Contact

delete(*workgroup_id, contact_id*)

Delete a contact from Isogeo database.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **contact_id** (*str*) – identifier of the resource to delete

dissociate_metadata(*metadata, contact*)

Removes the association between a metadata and a contact.

If the specified contact is not associated, the response is 404.

Parameters

- **metadata** (*Metadata*) – metadata object to update
- **contact** (*Contact*) – contact model object to associate

Return type

Response

exists(*contact_id*)

Check if the specified contact exists and is available for the authenticated user.

Parameters

contact_id (*str*) – identifier of the contact to verify

Return type

bool

get(*contact_id*)

Get details about a specific contact.

Parameters

contact_id (*str*) – contact UUID

Return type

Contact

listing(*workgroup_id=None, include=('count'), caching=1*)

Get workgroup contacts.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **include** (*tuple*) – identifier of the owner workgroup
- **caching** (*bool*) – option to cache the response

Return type

list

update(*contact, caching=1*)

Update a contact owned by a workgroup.

Parameters

- **contact** (*class*) – Contact model object to update
- **caching** (*bool*) – option to cache the response

Return type

Contact

isogeo_pysdk.api.routes_coordinate_systems module

Isogeo API v1 - API Routes to retrieve CoordinateSystems

See: <http://help.isogeo.com/api/complete/index.html>

class isogeo_pysdk.api.routes_coordinate_systems.**ApiCoordinateSystem**(*api_client=None*)

Bases: *object*

Routes as methods of Isogeo API used to manipulate coordinate-systems.

associate_metadata(*metadata, coordinate_system*)

Associate a coordinate-system (SRS) to a metadata.

If a coordinate-system is already associated to the metadata, it'll be overwritten.

Parameters

- **metadata** (*Metadata*) – metadata object to update
- **coordinate_system** (*CoordinateSystem*) – coordinate-system model object to associate

Return type

CoordinateSystem

Example

```
# retrieve metadata
md = isogeo.metadata.get(
    metadata_id=METADATA_UUID,
    include=()
)
# retrieve one of the SRS selected in the workgroup of the metadata
wg_srs = self.isogeo.coordinate_system.listing(md._creator.get("_id"))
random_srs = CoordinateSystem(**sample(wg_srs, 1)[0])
# associate them
isogeo.coordinateSystem.associate_metadata(
    metadata=md,
    coordinateSystem=random_srs,
)
```

associate_workgroup(*coordinate_system, workgroup=None*)

Add a coordinate system to the workgroup selection or/adn edit the SRS custom alias.

Parameters

- **coordinate_system** (*CoordinateSystem*) – EPSG code of the coordinate system to add to the workgroup selection
- **workgroup** (*Workgroup*) – identifier of the owner workgroup.

Return type

CoordinateSystem

Example

```
# retrieve the SRS
coordsys = isogeo.srs.get("4326")
# add a custom alias
coordsys.alias = "World SRS"
# add it to the workgroup selection
isogeo.srs.associate_workgroup(
    workgroup=isogeo.workgroup.get(WORKGROUP_UUID),
    coordinate_system=coordsys
)
```

dissociate_metadata(*metadata*)

Removes the coordinate-system from a metadata.

Parameters

metadata (*Metadata*) – metadata object to update

Return type

Response

dissociate_workgroup(*coordinate_system_code*, *workgroup_id=None*)

Remove a coordinate system from the workgroup selection.

Parameters

- **coordinate_system_code** (*str*) – EPSG code of the coordinate system to remove from the workgroup selection
- **workgroup_id** (*str*) – identifier of the owner workgroup.

Return type

CoordinateSystem

Example

```
>>> isogeo.srs.dissociate_workgroup(  
workgroup_id=WORKGROUP_TEST_FIXTURE_UUID,  
coordinate_system_code="2154"  
)
```

get(*coordinate_system_code*, *workgroup_id=None*)

Get details about a specific coordinate_system, from the whole Isogeo database or into a specific workgroup (to get the SRS alias for example).

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup. OPTIONAL: if present, list SRS selected into the workgroup.
- **coordinate_system_code** (*str*) – EPSG code of the coordinate system

Return type

CoordinateSystem

Example

```
>>> # list all coordinate-systems in the whole Isogeo database  
>>> srs = isogeo.srs.listing()  
>>> # print details about the first SRS found  
>>> pprint.pprint(isogeo.srs.get(srs[0].get("code")))  
{  
  '_tag': 'coordinate-system:4143',  
  'code': 4143,  
  'name': 'Abidjan 1987'  
}
```

listing(*workgroup_id=None*, *caching=1*)

Get coordinate-systems in the whole Isogeo database or into a specific workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup. OPTIONAL: if present, list SRS selected into the workgroup.
- **caching** (*bool*) – option to cache the response

Return type

list

Example

```

>>> # list all coordinate-systems in the whole Isogeo database
>>> srs = isogeo.srs.listing()
>>> print(len(srs))
4301
>>> # list coordinate-systems which have been selected in a specific workgroup
>>> srs = isogeo.srs.listing(workgroup_id=WORKGROUP_UUID)
>>> print(len(srs))
5

```

isogeo_pysdk.api.routes_datasource module

Isogeo API v1 - API Routes for Datasources entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_datasource.ApiDatasource`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate datasources (CSW entry-points).

create(*workgroup_id*, *datasource*={'_created': None, '_id': None, '_modified': None, '_tag': None, 'enabled': None, 'lastSession': None, 'location': None, 'name': None, 'resourceCount': None, 'sessions': None}, *check_exists=2*)

Add a new datasource to a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **check_exists** (*int*) – check if a datasource already exists inot the workgroup:
 - 0 = no check
 - 1 = compare name
 - 2 = compare URL (location) [DEFAULT]

Parameters

datasource (*class*) – Datasource model object to create

Return type

Datasource

datasource(*workgroup_id*, *datasource_id*)

Get details about a specific datasource.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **datasource_id** (*str*) – datasource UUID

Return type

Datasource

delete(*workgroup_id*, *datasource_id*)

Delete a datasource from Isogeo database.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **datasource_id** (*str*) – identifier of the resource to delete

exists(*workgroup_id*, *datasource_id*)

Check if the specified datasource exists and is available for the authenticated user.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **datasource_id** (*str*) – identifier of the datasource to verify

Return type

bool

listing(*workgroup_id=None*, *include=None*, *cached=1*)

Get workgroup datasources.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **include** (*list*) – additional subresource to include in the response
- **cached** (*bool*) – option to cache the response

Return type

list

update(*workgroup_id*, *datasource*, *cached=1*)

Update a datasource owned by a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **datasource** (*class*) – Datasource model object to update
- **cached** (*bool*) – option to cache the response

Return type

Datasource

isogeo_pysdk.api.routes_directives module

Isogeo API v1 - API Routes to retrieve EU environment code Directives used as INSPIRE limitations

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_directives.ApiDirective`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate directives (Europe Environment code for INSPIRE limitations).

listing(*cached=1*)

Get directives.

Parameters

cached (*bool*) – option to cache the response

Return type

list

isogeo_pysdk.api.routes_event module

Isogeo API v1 - API Routes for Events entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_event.ApiEvent`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate events.

create(*metadata, event*)

Add a new event to a metadata (= resource).

Parameters

- **metadata** (`Metadata`) – metadata (resource) to edit
- **Event** (`Event`) – event object to create

Return type

Event

delete(*event, metadata=None*)

Delete a event from Isogeo database.

Parameters

- **event** (`Class`) – Event model object to delete
- **metadata** (`Metadata`) – parent metadata (resource) containing the event

event(*metadata_id, event_id*)

Get details about a specific event.

Parameters

- **event_id** (*str*) – event UUID to get
- **event_id** – event UUID

Return type

Event

listing(*metadata*)

Get all events of a metadata.

Parameters

metadata (`Metadata`) – metadata (resource) to edit

Return type

list

update(*event, metadata=None*)

Update an event.

Parameters

- **event** (*class*) – Event model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the event

Return type

Event

isogeo_pysdk.api.routes_feature_attributes module

Isogeo API v1 - API Routes for FeatureAttributes entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_feature_attributes.ApiFeatureAttribute`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate feature attributes into a Metadata.

create(*metadata, attribute*)

Add a new feature attribute to a metadata (= resource).

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **attribute** (*FeatureAttribute*) – feature-attribute object to create

Returns

409 if an attribute with the same name already exists.

Return type

FeatureAttribute or tuple

Example

```
>>> # retrieve metadata
>>> md = isogeo.metadata.get(METADATA_UUID)
>>> # create the attribute locally
>>> new_attribute = FeatureAttribute(
    alias="Code INSEE de la commune",
    name="INSEE_COM",
    description="Une commune nouvelle résultant d'un regroupement de communes "
    "préexistantes se voit attribuer le code INSEE de l'ancienne commune "
    "désignée comme chef-lieu par l'arrêté préfectoral qui l'institue. "
    "En conséquence une commune change de code INSEE si un arrêté "
    "préfectoral modifie son chef-lieu.",
    dataType="CharacterString (5)",
    language="fr",
)
>>> # add it to the metadata
>>> isogeo.metadata.attributes.create(md, new_attribute)
```

delete(*attribute, metadata=None*)

Delete a feature-attribute from a metadata.

Parameters

- **attribute** ([FeatureAttribute](#)) – FeatureAttribute model object to delete
- **metadata** ([Metadata](#)) – parent metadata (resource) containing the feature-attribute

`get(metadata_id, attribute_id)`

Get details about a specific feature-attribute.

Parameters

- **metadata_id** (*str*) – metadata UUID
- **attribute_id** (*str*) – feature-attribute UUID

Example

```
>>> # get a metadata
>>> md = isogeo.metadata.get(METADATA_UUID)
>>> # list all of its attributes
>>> md_attributes = isogeo.metadata.attributes.listing(md)
>>> # get the first attribute
>>> attribute = isogeo.metadata.attributes.get(
    metadata_id=md._id,
    attribute_id=md_attributes[0].get("_id")
)
```

Return type

[FeatureAttribute](#)

`import_from_dataset(metadata_source, metadata_dest, mode='add', case_sensitive_matching=True)`

Import feature-attributes from another vector (or DTNG) metadata.

Parameters

- **metadata_source** ([Metadata](#)) – metadata from which to import the attributes
- **metadata_dest** ([Metadata](#)) – metadata where to import the attributes
- **mode** (*str*) – mode of import, defaults to ‘add’:
 - ‘add’: add the attributes except those with a duplicated name
 - ‘update’: update only the attributes with the same name
 - ‘update_or_add’: update the attributes with the same name or create

: param bool `case_sensitive_matching`: False to make featureattributes’s name matching case-insensitive when mode == “update”

Raises

- **TypeError** – if one metadata is not a vector or DTNG
- **ValueError** – if mode is not one of accepted value

Example

```
# get the metadata objects
md_source = isogeo.metadata.get(METADATA_UUID_SOURCE)
md_dest = isogeo.metadata.get(METADATA_UUID_DEST)
```

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```
# launch import
isogeo.metadata.attributes.import_from_dataset(md_source, md_dest, "add")
```

Return type

bool

listing(*metadata*)

Get all feature-attributes of a metadata.

Parameters**metadata** (*Metadata*) – metadata (resource)**Return type**

list

update(*attribute, metadata=None*)

Update a feature-attribute.

Parameters

- **attribute** (*FeatureAttribute*) – Feature Attribute model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the feature-attribute

Return type*FeatureAttribute***isogeo_pysdk.api.routes_format module**

Isogeo API v1 - API Routes for Formats entities

See: <http://help.isogeo.com/api/complete/index.html>NOTE: *format* being the name of a Python built-in function (see: <https://docs.python.org/3/library/functions.html#format>), we use the *frmt* shorter as replacement.**class** `isogeo_pysdk.api.routes_format.ApiFormat`(*api_client=None*)Bases: `object`

Routes as methods of Isogeo API used to manipulate formats.

create(*frmt, check_exists=1*)

Add a new format to the Isogeo formats database.

If a format with the same code already exists, the Isogeo API returns a 500 HTTP code. To prevent this error, use the `check_exists` option or check by yourself before.**Parameters**

- **frmt** (*Format*) – Format model object to create
- **check_exists** (*bool*) – check if a format with the same code exists before

Return type*Format* or tuple**Example**

```

format_to_add = Format(
    code="geojson",
    name="GeoJSON",
    type="vectorDataset"
)
isogeo.formats.create(format_to_add)

```

delete(*fmt*)

Delete a format from Isogeo database.

Parameters

fmt (*Format*) – Format model object to delete

get(*format_code*)

Get details about a specific format.

Parameters

format_code (*str*) – format code

Return type

Format

Example

```

>>> pprint.pprint(isogeo.formats.get("postgis"))
{
  '_id': string (uuid),
  '_tag': 'format:postgis',
  'aliases': [],
  'code': 'postgis',
  'name': 'PostGIS',
  'type': 'dataset',
  'versions': [
    '2.2',
    '2.1',
    '2.0',
    '1.5',
    '1.4',
    '1.3',
    '1.2',
    '1.1',
    '1.0',
    '0.9',
    None
  ]
}

```

listing(*data_type=None, caching=1*)

List formats available in Isogeo API.

Parameters

- **data_type** (*str*) – type of metadata to filter on
- **caching** (*bool*) – option to cache the response

Returns

list of dicts

Return type

list

Example

```

>>> formats = isogeo.formats.listing()
>>> # count all formats
>>> print(len(formats))
32
>>> # count formats which are only for vector dataset
>>> print(len(isogeo.formats.listing(data_type="vector-dataset")))
21
>>> # list all unique codes
>>> formats_codes = [i.get("code") for i in formats]
>>> pprint.pprint(formats_codes)
[
  'apic',
  'arcsde',
  'dgn',
  'dwg',
  'dxf',
  ...
]

```

nogeo_search(*query=None, page_size=10, offset=0*)

Search within data formats available in Isogeo API for NON GEOGRAPHICAL DATA ONLY.

Parameters

- **query** (*str*) – search terms. Equivalent of **q** parameter in Isogeo API.
- **page_size** (*int*) – limits the number of results. Useful to paginate results display. Default value: 10. Max value: 100.
- **offset** (*int*) – offset to start page size from a specific results index

Returns

list of dicts

Return type

list

Example

```

>>> isogeo.formats.search(query="a", page_size=1, offset=0)
[
  {
    'aliases': [],
    'name': 'Adobe PDF',
    'versions':
      [
        '7',
        '1.7',
        None,
        None
      ]
  }
]

```

update(*fmt*)

Update a format in Isogeo database.

Parameters

fmt (*Format*) – Format model object to update

Return type

Format

Example

```
>>> # retrieve format to update
>>> fmt_postgis = isogeo.formats.get("postgis")
>>> # add new versions locally
>>> fmt_postgis.versions.extend(["3.0", "3.1"])
>>> # update online
>>> fmt_postgis_updated = isogeo.formats.update(fmt_postgis)
```

isogeo_pysdk.api.routes_invitation module

Isogeo API v1 - API Routes for Invitations entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_invitation.ApiInvitation`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate invitations.

accept(*invitation=<class 'isogeo_pysdk.models.invitation.Invitation'>*)

Accept the invitation to join an Isogeo Workgroup.

Parameters

invitation (*class*) – Invitation model object to accept

Return type

Invitation

create(*workgroup_id, invitation={'_created': None, '_id': None, '_modified': None, 'email': None, 'expiresIn': None, 'group': None, 'role': None}*)

Add a new invitation to Isogeo.

Parameters

invitation (*class*) – Invitation model object to create

Return type

Invitation

Example

```
>>> # create the invitation locally
>>> invit = Invitation(
    email="prenom.nom@organisation.com",
    role="admin"
)
>>> # send the invitation
>>> isogeo.invitation.create(WORKGROUP_UUID, new_invit)
```

decline(*invitation*=<class 'isogeo_pysdk.models.invitation.Invitation'>)

Decline the invitation to join an Isogeo Workgroup.

Parameters

invitation (*class*) – Invitation model object to decline

Return type

Invitation

delete(*invitation_id*)

Delete an invitation from Isogeo database.

Parameters

invitation_id (*str*) – identifier of the invitation

get(*invitation_id*)

Get details about a specific invitation.

Parameters

invitation_id (*str*) – invitation UUID

Return type

Invitation

listing(*workgroup_id*)

Returns pending invitations (including expired) for the specified workgroup.

Parameters

workgroup_id (*str*) – workgroup UUID

Return type

list

update(*invitation*)

Update a invitation owned by a invitation.

Parameters

invitation (*class*) – Invitation model object to update

Return type

Invitation

isogeo_pysdk.api.routes_keyword module

Isogeo API v1 - API Routes for Keywords entities

See: <http://help.isogeo.com/api/complete/index.html>

class isogeo_pysdk.api.routes_keyword.**ApiKeyWord**(*api_client=None*)

Bases: *object*

Routes as methods of Isogeo API used to manipulate keywords.

associate_workgroup(*workgroup, keyword, check_exists=1*)

Associate a keyword to a workgroup.

Parameters

- **workgroup** (*Workgroup*) – workgroup (resource) to edit
- **keyword** (*Keyword*) – object to associate

- **check_exists** (*bool*) – check if the keyword is already associated with the workgroup. Defaults to True.

Example

```
# retrieve a workgroup
wg = isogeo.workgroup.get(WORKGROUP_UUID)
# retrieve a keyword
kw = isogeo.keyword.get(KEYWORD_UUID)
# associate a keyword to a workgroup
isogeo.keyword.associate_workgroup(workgroup = wg, keyword = kw)
```

Return type

dict

create(*keyword*, *thesaurus_id*='1616597fbc4348c8b11ef9d59cf594c8', *check_exists*=0)

Add a new keyword to the Isogeo thesaurus.

If a keyword with the same text already exists, the Isogeo API returns a 409 HTTP code. Then this method will try to get the closest matching keyword and return it.

Parameters

- **keyword** (*Keyword*) – Keyword model object to create
- **thesaurus_id** (*str*) – thesaurus UUID
- **check_exists** (*bool*) – check if a keyword with the same text already exists. Defaults to False.

Return type

Keyword

delete(*keyword*, *thesaurus_id*='1616597fbc4348c8b11ef9d59cf594c8')

Delete a keyword from Isogeo database.

Parameters

- **keyword** (*Keyword*) – Keyword model object to create
- **thesaurus_id** (*str*) – thesaurus UUID

Return type

Keyword

dissociate_workgroup(*workgroup*, *keyword*, *check_exists*=1)

Dissociate a keyword from a workgroup.

Parameters

- **workgroup** (*Workgroup*) – workgroup (resource) to edit
- **keyword** (*Keyword*) – object to dissociate
- **check_exists** (*bool*) – check if the keyword is already dissociated with the workgroup. Defaults to True.

Example

```
# retrieve a workgroup
wg = isogeo.workgroup.get(WORKGROUP_UUID)
# retrieve a keyword
kw = isogeo.keyword.get(KEYWORD_UUID)
# dissociate a keyword to a workgroup
isogeo.keyword.dissociate_workgroup(workgroup = wg, keyword = kw)
```

Return type

dict

get(*keyword_id*, *include*=('_abilities', 'count', 'thesaurus'))

Get details about a specific keyword.

Parameters

- **keyword_id** (*str*) – keyword UUID
- **include** (*tuple*) – additional subresource to include in the response

Example

```
>>> # get a metadata with its tags (or keywords)
>>> md = isogeo.metadata.get(METADATA_UUID, include=("tags",))
>>> # list Isogeo keywords
>>> li_keywords_uuids = [
    tag[8:] for tag in self.metadata_source.tags
    if tag.startswith("keyword:isogeo:")
]
>>> # pick a random one
>>> random_keyword = sample(li_keywords_uuid, 1)[0]
>>> # get its details
>>> keyword = isogeo.keyword.get(random_keyword)
```

Return type*Keyword*

metadata(*metadata_id*=None, *include*=('_abilities', 'count', 'thesaurus'))

List a metadata's keywords with complete information.

Parameters

- **metadata_id** (*str*) – metadata UUID
- **include** (*tuple*) – subresources that should be returned. Available values:
 - '_abilities'
 - 'count'
 - 'thesaurus'

Return type

list

async search_keyword_asynchronous(*total_results*, *max_workers*=10, ***kwargs*)

Meta async method used to request big searches (> 100 results), using asyncio. It's a private method launched by the main search method.

Parameters

- **total_results** (*int*) – total of results to retrieve
- **max_workers** (*int*) – maximum number of thread to use `python.concurrent.futures`

Return type*KeywordSearch***tagging**(*metadata, keyword, check_exists=0*)

Associate a keyword to a metadata.

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **keyword** (*Keyword*) – object to associate
- **check_exists** (*bool*) – check if the keyword is already tagged to the metadata. Defaults to False.

Example

```
# retrieve a metadata
md = isogeo.metadata.get(METADATA_UUID)
# retrieve a keyword
kw = isogeo.keyword.get(KEYWORD_UUID)
# associate a keyword to a metadata
isogeo.keyword.tagging(metadata = md, keyword = kw)
```

Return type*dict*

thesaurus(*thesaurus_id='1616597fbc4348c8b11ef9d59cf594c8', query='', offset=0, order_by='text', order_dir='desc', page_size=100, specific_md=[], specific_tag=[], include=('_abilities', 'count'), whole_results=True*)

Search for keywords within a specific thesaurus or a specific group.

Parameters

- **thesaurus_id** (*str*) – thesaurus UUID
- **query** (*str*) – search terms, equivalent of **q** parameter in API.
- **offset** (*int*) – offset to start page size from a specific results index
- **order_by** (*str*) – sorting results. Available values:
 - `'count.isogeo'`: count of associated resources within Isogeo
 - `'text'`: alphabetical order [DEFAULT if relevance is null]
- **order_dir** (*str*) – sorting direction. Available values:
 - `'desc'`: descending [DEFAULT]
 - `'asc'`: ascending
- **page_size** (*int*) – limits the number of results. Default: 100.
- **specific_md** (*list*) – list of metadata UUIDs to filter on
- **specific_tag** (*list*) – list of tags UUIDs to filter on
- **include** (*tuple*) – subresources that should be returned. Available values:

- '_abilities'
- 'count'
- 'thesaurus'

- **whole_results** (*bool*) – option to return all results or only the page size. *False* by DEFAULT.

Return type

KeywordSearch

untagging(*metadata, keyword*)

Dissociate a keyword from a metadata.

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **keyword** (*Keyword*) – object to associate

Return type

dict

workgroup(*workgroup_id=None, thesaurus_id=None, query="", offset=0, order_by='text', order_dir='desc', page_size=100, specific_md=[], specific_tag=[], include=('_abilities', 'count', 'thesaurus'), whole_results=True*)

Search for keywords within a specific group's used thesauri.

Parameters

- **thesaurus_id** (*str*) – thesaurus UUID to filter on
- **query** (*str*) – search terms, equivalent of **q** parameter in API.
- **offset** (*int*) – offset to start page size from a specific results index
- **order_by** (*str*) – sorting results. Available values:
 - 'count.group': count of associated resources within the specified group
 - 'count.isogeo': count of associated resources within Isogeo
 - 'text': alphabetical order [DEFAULT]
- **order_dir** (*str*) – sorting direction. Available values:
 - 'desc': descending [DEFAULT]
 - 'asc': ascending
- **page_size** (*int*) – limits the number of results. Default: 100.
- **specific_md** (*list*) – list of metadata UUIDs to filter on
- **specific_tag** (*list*) – list of tags UUIDs to filter on
- **include** (*tuple*) – subresources that should be returned. Available values:
 - '_abilities'
 - 'count'
 - 'thesaurus'
- **whole_results** (*bool*) – option to return all results or only the page size. *False* by DEFAULT.

Return type*KeywordSearch***isogeo_pysdk.api.routes_license module**

Isogeo API v1 - API Routes for Licenses (= CGUs, conditions) entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_license.ApiLicense`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate licenses (conditions).

associate_metadata(*metadata, license, description, force=0*)

Associate a condition (license + specific description) to a metadata. When a license is associated to a metadata, it becomes a condition.

By default, if the specified license is already associated, the method won't duplicate the association. Use *force* option to overpass this behavior.

Parameters

- **metadata** (`Metadata`) – metadata object to update
- **license** (`License`) – license model object to associate
- **description** (`str`) – additional description to add to the association. Optional.
- **force** (`bool`) – force association even if the same license is already associated

Example

```
>>> # retrieve objects to be associated
>>> md = isogeo.metadata.get(
    metadata_id="6b5cc93626634d0e9b0d2c48eff96bc3",
    include=['conditions']
)
>>> lic = isogeo.license.license("f6e0c665905a4feab1e9c1d6359a225f")
>>> # associate them
>>> isogeo.license.associate_metadata(
    metadata=md,
    license=lic,
    description="Specific description for this license when applied to this_
↵ metadata."
)
```

Return type*Response*

create(*workgroup_id, check_exists=1, license={'_abilities': None, '_id': None, '_tag': None, 'content': None, 'count': None, 'link': None, 'name': None, 'owner': None}*)

Add a new license to a workgroup.

Parameters

- **workgroup_id** (`str`) – identifier of the owner workgroup
- **check_exists** (`int`) – check if a license already exists inot the workgroup:

- 0 = no check
- 1 = compare name [DEFAULT]

Parameters

license (*class*) – License model object to create

Return type

License

delete(*workgroup_id*, *license_id*)

Delete a license from Isogeo database.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **license_id** (*str*) – identifier of the resource to delete

exists(*license_id*)

Check if the specified license exists and is available for the authenticated user.

Parameters

license_id (*str*) – identifier of the license to verify

Return type

bool

get(*license_id*)

Get details about a specific license.

Parameters

license_id (*str*) – license UUID

Return type

License

listing(*workgroup_id=None*, *include=('_abilities', 'count')*, *caching=1*)

Get workgroup licenses.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **include** (*tuple*) – additional subresource to include in the response
- **caching** (*bool*) – option to cache the response

Return type

list

update(*license*, *caching=1*)

Update a license owned by a workgroup.

Parameters

- **license** (*class*) – License model object to update
- **caching** (*bool*) – option to cache the response

Return type

License

isogeo_pysdk.api.routes_limitation module

Isogeo API v1 - API Routes to manage metadata limitations.

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_limitation.ApiLimitation`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate metadata limitations (CGUs).

create(*metadata, limitation*)

Add a new limitation to a metadata (= resource).

Parameters

- **metadata** (`Metadata`) – metadata (resource) to edit
- **limitation** (`Limitation`) – limitation object to create

Returns

409 if a limitation with the same name already exists.

Return type

Limitation or tuple

Example

```
# retrieve metadata
md = isogeo.metadata.get(METADATA_UUID)
# create the limitation locally
new_limitation = Limitation(
    type="legal",
    restriction="patent",
    description="Do not use for commercial purpose.",
)
# add it to the metadata
isogeo.metadata.limitations.create(md, new_limitation)
```

delete(*limitation, metadata=None*)

Delete a limitation from a metadata.

Parameters

- **limitation** (`Limitation`) – Limitation model object to delete
- **metadata** (`Metadata`) – parent metadata (resource) containing the limitation

get(*metadata_id, limitation_id*)

Get details about a specific limitation.

Parameters

- **metadata_id** (*str*) – metadata UUID
- **limitation_id** (*str*) – limitation UUID

Example

```
>>> # get a metadata
>>> md = isogeo.metadata.get(METADATA_UUID)
>>> # list its limitations
>>> md_limitations = isogeo.metadata.limitations.listing(md)
>>> # get the first limitation
>>> limitation = isogeo.metadata.limitations.get(
    metadata_id=md._id,
    limitation_id=md_limitations[0].get("_id")
)
```

Return type*Limitation***listing**(*metadata*)

Get limitations of a metadata.

Parameters**metadata** (*Metadata*) – metadata (resource)**Return type***list***update**(*limitation*, *metadata=None*)

Update a limitation.

Parameters

- **limitation** (*Limitation*) – Limitation model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the limitation

Return type*Limitation***isogeo_pysdk.api.routes_link module**

Isogeo API v1 - API Routes to manage metadata links.

See: <http://help.isogeo.com/api/complete/index.html>**class** `isogeo_pysdk.api.routes_link.ApiLink`(*api_client=None*)Bases: `object`

Routes as methods of Isogeo API used to manipulate metadata links (CGUs).

clean_kind_action_liability(*link_actions*, *link_kind*)

Link available actions depend on link kind. Relationships between kinds and actions are described in the */link-kinds* route. This is a helper checking the liability between kind/actions/type and cleaning if needed. Useful before creating or updating a link.

Parameters

- **link_actions** (*list*) – link actions
- **link_kind** (*str*) – link kind

Return type*tuple*

Example

```
# invalid action will be removed
print(isogeo.metadata.links.clean_kind_action_liability(
    link_actions=("download", "stream"),
    link_kind="url"
))
>>> ('download',)
```

create(*metadata, link, clean_actions=True*)

Add a new link to a metadata (= resource).

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **link** (*Link*) – link object to create
- **clean_actions** (*bool*) – if True, clean link actions depending on link kind

Returns

the created link or a tuple with the request's response error code

Return type

Link or tuple

Example

```
# retrieve metadata
md = isogeo.metadata.get(METADATA_UUID)
# create the link locally
new_link = Link(
    type="url",
    restriction="patent",
    description="Do not use for commercial purpose.",
)
# add it to the metadata
isogeo.metadata.links.create(md, new_link)

# to create a link which is a pointer to another link, add the link attribute:
new_link = Link(
    actions=["other"],
    title="Associated link",
    kind="url",
    type="link",
    link=Link(_id=LINK_UUID)
)
```

delete(*link, metadata=None*)

Delete a link from a metadata.

Parameters

- **link** (*Link*) – Link model object to delete
- **metadata** (*Metadata*) – parent metadata (resource) containing the link. Optional if the link contains the 'parent_resource' attribute.

Return type

Response

download_hosted(*link*, *encode_clean=1*)

Download hosted resource.

Parameters

- **link** (*Link*) – link object
- **encode_clean** (*bool*) – option to ensure a clean filename and avoid OS errors

Returns

tuple(stream, filename, human readable size)

Return type

tuple

Example:

```
# get links from a metadata
md_links = isogeo.metadata.links.listing(Metadata(_id=METADATA_UUID))
# filter on hosted links
hosted_links = [
    link for link in md_links
    if link.get("type") == "hosted"
]
# get the stream, the filename and the size (in human readable format)
dl_stream = isogeo.metadata.links.download_hosted(Link(**hosted_links[0]))
# download the file and store it locally
with open("./" + dl_stream[1], "wb") as fd:
    for block in dl_stream[0].iter_content(1024):
        fd.write(block)
```

get(*metadata_id*, *link_id*)

Get details about a specific link.

Parameters

- **metadata_id** (*str*) – metadata UUID
- **link_id** (*str*) – link UUID

Return type*Link***Example**

```
# get a metadata
md = isogeo.metadata.get(METADATA_UUID)
# list its links
md_links = isogeo.metadata.links.listing(md)
# get the first link
link = isogeo.metadata.links.get(
    metadata_id=md._id,
    link_id=md_links[0].get("_id")
)
```

kinds_actions(*caching=1*)

Get the relation between kinds and action for links.

Parameters

caching (*bool*) – cache the response into the main API client instance. Defaults to True.

Returns

list of dictionaries per link kinds

Return type

list

Example

```
import pprint
pprint.pprint(isogeo.metadata.links.kinds_actions())

>>> [
    {
        'actions':
        [
            'download',
            'view',
            'other'
        ],
        'kind': 'url',
        'name': 'Lien'
    },
    {
        'actions': ['download', 'view', 'other'],
        'kind': 'wfs',
        'name': 'Service WFS'
    },
    {
        'actions': ['view', 'other'],
        'kind': 'wms',
        'name': 'Service WMS'
    },
    {
        'actions': ['view', 'other'],
        'kind': 'wmmts',
        'name': 'Service WMTS'
    },
    {
        'actions': ['download', 'view', 'other'],
        'kind': 'esriFeatureService',
        'name': 'Service ESRI Feature'
    },
    {
        'actions': ['view', 'other'],
        'kind': 'esriMapService',
        'name': 'Service ESRI Map'
    },
    {
        'actions': ['view', 'other'],
        'kind': 'esriTileService',
        'name': 'Service ESRI Tile'
    },
    ],
```

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```

    {
        'actions': ['download', 'other'],
        'kind': 'data',
        'name': 'Donnée brute'
    }
]

```

listing(*metadata*)

Get links of a metadata.

Parameters**metadata** (*Metadata*) – metadata (resource)**Return type***list***update**(*link*, *metadata=None*)

Update a link.

Parameters

- **link** (*Link*) – Link model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the link. Optional if the link contains the ‘parent_resource’ attribute.

Return type*Link***upload_hosted**(*metadata*, *link*, *file_to_upload*)Add a new link to a metadata uploading a file to hosted data. See: <https://requests.readthedocs.io/en/latest/user/quickstart/#post-a-multipart-encoded-file>**Parameters**

- **metadata** (*Metadata*) – metadata (resource) to edit
- **link** (*Link*) – link object to create
- **file_to_upload** (*Path*) – file path to upload

Returns

the new Link if succeeded or the tuple with the request error code

Return type*Link* or tuple**Example**

```

from pathlib import Path

# define metadata
md = isogeo.metadata.get(METADATA_UUID)

# localize the file on the OS
my_file = Path("./upload/documentation.zip")

# create the link locally
lk = Link(

```

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```

    title=my_file.name
    )

# add it to the metadata
send = isogeo.metadata.links.upload_hosted(
    metadata=md,
    link=lk,
    file_to_upload=my_file.resolve()
    )

```

isogeo_pysdk.api.routes_metadata module

Isogeo API v1 - API Routes for Resources (= Metadata) entity

See: <http://help.isogeo.com/api/complete/index.html#definition-resource>

class isogeo_pysdk.api.routes_metadata.**ApiMetadata**(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate metadatas (resources).

catalogs(*metadata*)

Returns associated catalogs with a metadata. Just a shortcut.

Parameters

metadata (`Metadata`) – metadata object

Return type

list

create(*workgroup_id, metadata, return_basic_or_complete=0*)

Add a new metadata to a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **metadata** (`Metadata`) – Metadata model object to create
- **return_basic_or_complete** (*int*) – creation of metadata uses a bulk script. So, by default API does not return the complete object but the minimal info. This option allow to overrides the basic behavior. Options:
 - 0 = dry (only the `_id`, title and attributes passed for the creation) [DEFAULT]
 - 1 = basic without any include (requires an additionnal request)
 - 2 = complete with all include (requires an additionnal request)

Return type

`Metadata`

Example

```

# create a local metadata
my_metadata = Metadata(
    title="My awesome metadata",      # required
    type="vectorDataset",            # required

```

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```

    abstract="Here comes my awesome description with a piece of markdown."
    ↪ # optional
)

# push it online
isogeo.metadata.create(
    workgroup_id=WORKGROUP_UUID,
    metadata=my_metadata
)

```

delete(*metadata_id*)

Delete a metadata from Isogeo database.

Parameters**metadata_id** (*str*) – identifier of the resource to delete**Return type**

Response

download_xml(*metadata*)

Download the metadata exported into XML ISO 19139.

Parameters**metadata** (*Metadata*) – metadata object to export**Return type**

Response

Example

```

# get the download stream
xml_stream = isogeo.metadata.download_xml(Metadata(_id=METADATA_UUID))
# write it to a file
with open("./{}.xml".format("metadata_exported_as_xml"), "wb") as fd:
    for block in xml_stream.iter_content(1024):
        fd.write(block)

```

exists(*resource_id*)

Check if the specified resource exists and is available for the authenticated user.

Parameters**resource_id** (*str*) – identifier of the resource to verify**Return type**

bool

get(*metadata_id*, *include=()*)

Get complete or partial metadata about a specific metadata (= resource).

Parameters

- **metadata_id** (*str*) – metadata UUID to get
- **include** (*tuple*) – subresources that should be included. Available values:
 - one or various from MetadataSubresources (Enum)
 - "all" to get complete metadata with every subresource included

Return type*Metadata***keywords** (*metadata*, *include=*('abilities', 'count', 'thesaurus'))

Returns associated keywords with a metadata. Just a shortcut.

Parameters

- **metadata** (*Metadata*) – metadata object
- **include** (*tuple*) – subresources that should be returned. Available values:
 - ‘abilities’
 - ‘count’
 - ‘thesaurus’

Return type

list

update (*metadata*, *_http_method=*'PATCH')Update a metadata, but **ONLY** the root attributes, not the subresources.

Certain attributes of the Metadata object to update are required:

- *_id*
- *editionProfile*
- *type*

See: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/116>**Parameters**

- **metadata** (*Metadata*) – metadata object to update
- **_http_method** (*str*) – HTTP method (verb) to use. Default to ‘PATCH’ but can be set to ‘PUT’ in certain cases (services).

Return type*Metadata***Returns**

the updated metadata or the request error.

Example

```
# get a metadata
my_metadata = isogeo.metadata.get(metadata_id=METADATA_UUID)
# add an updated watermark in the abstract
my_metadata.abstract += '**Updated!**'
# push it online
isogeo.metadata.update(my_metadata)
```

isogeo_pysdk.api.routes_metadata_bulk module

Isogeo API v1 - API Route for bulk update on resources (= Metadata)

class `isogeo_pysdk.api.routes_metadata_bulk.ApiBulk`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to mass edition of metadatas (resources).

Example

```
# retrieve objects to be associated
catalog_1 = isogeo.catalog.get(
    workgroup_id={WORKGROUPE_UUID},
    catalog_id={CATALOG_UUID_1},
)

catalog_2 = isogeo.catalog.get(
    workgroup_id={WORKGROUPE_UUID},
    catalog_id={CATALOG_UUID_2},
)

keyword = isogeo.keyword.get(keyword_id={KEYWORD_UUID},)

# along the script, prepare the bulk requests
isogeo.metadata.bulk.prepare(
    metadatas=(
        {METADATA_UUID_1},
        {METADATA_UUID_2},
    ),
    action="add",
    target="catalogs",
    models=(catalog_1, catalog_2),
)

isogeo.metadata.bulk.prepare(
    metadatas=(
        {METADATA_UUID_1},
    ),
    action="add",
    target="keywords",
    models=(keyword,),
)

# send the one-shot request
isogeo.metadata.bulk.send()
```

BULK_DATA = []

prepare(*metadatas, action, target, models*)

Prepare requests to be sent later in one shot.

Parameters

- **metadatas** (*tuple*) – tuple of metadatas UUIDs or Metadatas to be updated

- **action** (*str*) – type of action to perform on metadatas. See: *bulk_actions*.
- **target** (*str*) – kind of object to add/delete/update to the metadatas. See: *bulk_targets*.
- **models** (*tuple*) – tuple of objects to be associated with the metadatas.

Return type*BulkRequest***send()**Send prepared BULK_DATA to the *POST BULK resources/*.**Return type**List[*BulkReport*]**isogeo_pysdk.api.routes_search module**

Isogeo API v1 - API Routes for Search

See: <http://help.isogeo.com/api/complete/index.html#definition-resource>**class** `isogeo_pysdk.api.routes_search.ApiSearch`(*api_client=None*)Bases: `object`

Routes as methods of Isogeo API used to manipulate metadatas (resources).

add_tags_shares(*search*)

Add shares list to the tags attributes in search.

Parameters**search** (`MetadataSearch`) – search to add shares

search(*group=None, query="", share=None, specific_md=(), include=(), bbox=None, poly=None, georel=None, order_by='_created', order_dir='desc', page_size=20, offset=0, augment=False, check=True, expected_total=None, tags_as_dicts=False, whole_results=False*)

Search within the resources shared to the application. It's the mainly used method to retrieve metadata.

Parameters

- **group** (*str*) – context to search. Pass a workgroup UUID to search within a group or pass None (default) to search in a global context.
- **query** (*str*) – search terms and semantic filters. Equivalent of **q** parameter in Iso-geo API. It could be a simple string like *oil* or a tag like *keyword:isogeo:formations* or *keyword:inspire-theme:landcover*. The **AND** operator is applied when various tags are passed.
- **bbox** (*tuple*) – Bounding box to limit the search. Must be a 4 tuple of coordinates in WGS84 (EPSG 4326). Could be associated with *georel*.
- **poly** (*str*) – Geographic criteria for the search, in WKT format. Could be associated with *georel*.
- **georel** (*str*) – geometric operator to apply to the *bbox* or *poly* parameters. Available values:
 - 'contains',
 - 'disjoint',
 - 'equals',

- 'intersects' - [APPLIED BY API if NOT SPECIFIED]
- 'overlaps',
- 'within'.
- **order_by** (*str*) – sorting results. Available values:
 - '_created': metadata creation date [DEFAULT if relevance is null]
 - '_modified': metadata last update
 - 'title': metadata title
 - 'created': data creation date (possibly None)
 - 'modified': data last update date
 - 'relevance': relevance score calculated by API [DEFAULT].
- **order_dir** (*str*) – sorting direction. Available values:
 - 'desc': descending
 - 'asc': ascending
- **page_size** (*int*) – limits the number of results. Useful to paginate results display. Default value: 100.
- **offset** (*int*) – offset to start page size from a specific results index
- **share** (*str*) – share UUID to filter on
- **specific_md** (*tuple*) – list of metadata UUIDs to filter on
- **include** (*tuple*) – subresources that should be returned. See: `enums.MetadataSubresources`.
- **whole_results** (*bool*) – option to return all results or only the page size. *False* by DEFAULT.
- **check** (*bool*) – option to check query parameters and avoid erros. *True* by DEFAULT.
- **augment** (*bool*) – option to improve API response by adding some tags on the fly (like `shares_id`)
- **expected_total** (*int*) – if different of None, value will be used to paginate. Can save a request.
- **tags_as_dicts** (*bool*) – option to store tags as key/values by filter.

Return type

MetadataSearch

Example

```
# get the search context (without results), useful to populate a search widget
search_context = isogeo.search(page_size=0, whole_results=0, augment=1)

# search the 10 first results in alphabetically order
search_10 = isogeo.search(
    page_size=10,
    include="all",
    order_by="title",
    order_dir="asc",
```

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```

        expected_total=search_context.total
    )

    # returns all results, filtering on vector-datasets
    search_full = isogeo.search(
        query="type:vector-dataset",
        order_by="title",
        order_dir="desc",
        include="all",
        augment=1,
        whole_results=1
    )

```

async search_metadata_asynchronous(total_results, max_workers=10, **kwargs)

Meta async method used to request big searches (> 100 results), using asyncio. It's a private method launched by the main search method.

Parameters

- **total_results** (*int*) – total of results to retrieve
- **max_workers** (*int*) – maximum number of thread to use `python.concurrent.futures`

Return type

MetadataSearch

isogeo_pysdk.api.routes_service module

Isogeo API v1 - API Routes for Metadata of Services (web geo services)

See: <http://help.isogeo.com/api/complete/index.html#definition-resource>

class `isogeo_pysdk.api.routes_service.ApiService`(api_client=None)

Bases: `object`

Routes as methods of Isogeo API used to manipulate metadatas of web geo services (services).

It's a set of helpers and shortcuts to make easier the service management with the isogeo API.

create(workgroup_id, service_url, service_type='guess', service_format=None, service_title=None, check_exists=1, ignore_availability=0, http_verb='HEAD')

Add a new metadata of a geographic webservice to a workgroup.

It's just a helper to make it easy to create a metadata of a service with autofill for service layers.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **service_url** (*str*) – URL of the service
- **service_type** (*str*) – type of service. Must be one of: 'esri', 'esri_ogc', 'ogc', 'guess'
- **service_format** (*str*) – format of the web service. Must be one of the accepted codes in API (Non exhaustive list: 'efs', 'ems', 'wfs', 'wms', 'wmts'). If is None, so the it'll try to guess it from the URL.
- **service_title** (*str*) – title for the metadata service in case of analysis fail. OPTIONAL.

- **check_exists** (*bool*) – check if a metadata with the same service base URL and format already exists. Defaults to True.
- **ignore_availability** (*bool*) – the service URL is tested to determine if it can be reached (HEAD then GET). This option allow to ignore the test result. Can be useful if the service is only reachable by certains URLs or domains like *.isogeo.com. Defaults to False.
- **http_verb** (*str*) – HTTP verb to use to check the if the service is available. Must be one of: GET, HEAD

Return type

Service

Raises

- **ValueError** – if workgroup_id is not a correct UUID | if http_verb or service_type is not a correct value
- **AlreadyExistError** – if a metadata service with the same base URL already exists in the workgroup

Example

```
# for an OGC WMS by GeoServer, passing type and format
isogeo.services.create(
    workgroup_id=WORKGROUP_UUID,
    service_type="ogc",
    service_format="wms",
    service_url="https://magosm.magellium.com/geoserver/ows?service=wms&
↳version=1.3.0&request=GetCapabilities"
)
# for an OGC WFS by ArcGIS Server, passing only the service URL with query_
↳parameters
new_srv = isogeo.services.create(
    workgroup_id=WORKGROUP_UUID,
    service_url="https://ligeo.paysdelaloire.fr/server/services/Le_Mans/Le_Mans_
↳service/MapServer/WFSServer?request=GetCapabilities&service=WFS",
)
# for an Esri FeatureServer
new_srv = isogeo.services.create(
    workgroup_id=WORKGROUP_UUID,
    service_url="https://api-carto.dijon.fr/arcgis/rest/services/SIGNALISATION/
↳signalisation_MAJ/FeatureServer?f=pjson",
)
```

update(*service*, *check_only=0*)

Update a metadata of service while keeping the associations of the layers.

Parameters

- **metadata** (*Metadata*) – identifier of the resource to verify
- **check_only** (*bool*) – option to only get the diff

Return type

Metadata

isogeo_pysdk.api.routes_service_layers module

Isogeo API v1 - API Routes for ServiceLayers entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_service_layers.ApiServiceLayer`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate service_layers.

associate_metadata(*service, layer, dataset*)

Associate a service layer with a dataset metadata.

If the specified layer is already associated, the response is 409.

Parameters

- **service** (`Metadata`) – metadata of the service which contains the layer
- **layer** (`ServiceLayer`) – layer model object to associate
- **dataset** (`Metadata`) – metadata of the dataset to associate with

Example

```
>>> # retrieve objects to be associated. First: the metadata of the service.
>>> service = isogeo.metadata.get(
    metadata_id=str,
)
>>> # second: the layer of the service you want to associate
>>> layer = isogeo.metadata.layers.layer(
    metadata_id=service._id,
    layer_id=str,
)
>>> # third: the dataset to be associated with the service layer
>>> dataset = isogeo.metadata.get(
    metadata_id=str,
)
>>> # associate them
>>> isogeo.metadata.layers.associate_metadata(
    service=service,
    layer=layer,
    dataset=metadata
)
```

Return type

`Response`

create(*metadata, layer*)

Add a new layer to a metadata (= resource).

Parameters

- **metadata** (`Metadata`) – metadata (resource) to edit. Must be a service.
- **ServiceLayer** (`ServiceLayer`) – service_layer object to create

Return type

`ServiceLayer`

delete(*layer*, *metadata=None*)

Delete a service layer from Isogeo database.

Parameters

- **layer** (*ServiceLayer*) – ServiceLayer model object to delete
- **metadata** (*Metadata*) – parent metadata (resource) containing the service_layer

dissociate_metadata(*service*, *layer*, *dataset*)

Removes the association between a service layer with a dataset metadata.

If the association doesn't exist, the response is 404.

Parameters

- **service** (*Metadata*) – metadata of the service which contains the layer
- **layer** (*ServiceLayer*) – layer model object to associate
- **dataset** (*Metadata*) – metadata of the dataset to associate with

Return type

Response

layer(*metadata_id*, *layer_id*)

Get details about a specific service_layer.

Parameters

- **metadata_id** (*str*) – metadata with layers
- **layer_id** (*str*) – service layer UUID

Return type

ServiceLayer

listing(*metadata*)

Get all service layers of a metadata.

Parameters

metadata (*Metadata*) – metadata (resource) to edit

Return type

list

update(*layer*, *metadata=None*)

Update a service layer.

Parameters

- **layer** (*ServiceLayer*) – ServiceLayer model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the service_layer

Return type

ServiceLayer

isogeo_pysdk.api.routes_service_operations module

Isogeo API v1 - API Routes for ServiceOperations entities

See: <http://help.isogeo.com/api/complete/index.html#tag-operation>

class `isogeo_pysdk.api.routes_service_operations.ApiServiceOperation`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate service_operations.

create(*metadata, operation*)

Add a new operation to a metadata (= resource).

Parameters

- **metadata** (`Metadata`) – metadata (resource) to edit. Must be a service.
- **ServiceOperation** (`ServiceOperation`) – service_operation object to create

Return type

`ServiceOperation`

listing(*metadata*)

Get all operations of a metadata service.

Parameters

metadata (`Metadata`) – metadata (resource) to edit. Must be type of service.

Return type

`list`

operation(*metadata_id, operation_id*)

Get details about a specific service operation and expand the model with the parent service metadata ‘_id’ reference.

Parameters

- **metadata_id** (*str*) – metadata with operations
- **operation_id** (*str*) – service operation UUID

Return type

`ServiceOperation`

isogeo_pysdk.api.routes_share module

Isogeo API v1 - API Routes for Shares entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_share.ApiShare`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate shares.

associate_application(*share, application*)

Associate a share with an application.

Parameters

- **share** (`Share`) – share model object to update

- **application** ([Application](#)) – application object to associate

Return type

`tuple`

associate_catalog(*share, catalog*)

Associate a share with a catalog.

Parameters

- **share** ([Share](#)) – share model object to update
- **catalog** ([Catalog](#)) – object to associate

Return type

`tuple`

associate_group(*share, group*)

Associate a group with a share of type 'group'.

If the specified group is already associated, the response is still 204.

Parameters

- **share** ([Share](#)) – share model object to update
- **group** ([Workgroup](#)) – group object to associate

Return type

`Response`

create(*workgroup_id, share={'_created': None, '_creator': (None,), '_id': None, '_modified': None, 'applications': None, 'catalogs': None, 'groups': None, 'name': None, 'rights': None, 'type': None, 'urlToken': None}, check_exists=1)*

Add a new share to Isogeo.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **share** ([Share](#)) – Share model object to create
- **check_exists** (*int*) – check if a share already exists into the workgroup:
 - 0 = no check
 - 1 = compare name [DEFAULT]

Return type

`Share`

delete(*share_id*)

Delete a share from Isogeo database.

Parameters

share_id (*str*) – identifier of the resource to delete

Return type

`Response`

dissociate_application(*share, application*)

Removes the association between the specified share and the specified application.

Parameters

- **share** (*Share*) – share model object to update
- **application** (*Application*) – object to associate

Return type

tuple

dissociate_catalog(*share, catalog*)

Removes the association between the specified share and the specified catalog.

Parameters

- **share** (*Share*) – share model object to update
- **catalog** (*Catalog*) – object to associate

Return type

tuple

dissociate_group(*share, group*)

Removes the association between the specified share and the specified group.

If the specified group is associated, the association is removed, Response is 204. If not, the Response is 500.

Parameters

- **share** (*Share*) – share model object to update
- **group** (*Workgroup*) – object to associate

Return type

tuple

exists(*share_id*)

Check if the specified share exists and is available for the authenticated user.

Parameters

share_id (*str*) – identifier of the share to verify

Return type

bool

get(*share_id, include=('_abilities', 'groups')*)

Returns details about a specific share.

Parameters

- **share_id** (*str*) – share UUID
- **include** (*tuple*) – additional subresource to include in the response

Return type

Share

listing(*workgroup_id=None, caching=1*)

Get all shares which are accessible by the authenticated user OR shares for a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup. If *None*, then list shares for the authenticated user
- **caching** (*bool*) – option to cache the response

Return type

list

refresh_token(*share*)

Refresh the URL token of a share, used by Cartotheque, CSW, OpenCatalog.

Parameters

share (*Share*) – Share model object to update

Return type

Share

reshare(*share*, *reshare=1*)

Enable/disable the reshare option for the given share.

Only available for shares of type 'group'.

Parameters

- **share** (*Share*) – Share model object to update
- **reshare** (*bool*) – set option to allow recipients groups

Return type

Share

update(*share*, *caching=1*)

Update a share owned by a workgroup.

Parameters

- **share** (*Share*) – Share model object to update
- **caching** (*bool*) – option to cache the response

Return type

Share

isogeo_pysdk.api.routes_specification module

Isogeo API v1 - API Routes for Specifications entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_specification.ApiSpecification`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate specifications.

associate_metadata(*metadata*, *specification*, *conformity=0*)

Associate a specification (specification + conformity) to a metadata. When a specification is associated to a metadata, it becomes a ResourceConformity object.

If the specified specification is already associated, the API responses is still a 200.

Parameters

- **metadata** (*Metadata*) – metadata object to update

- **specification** (*Specification*) – specification model object to associate
- **conformity** (*bool*) – indicates whether the dataset is compliant

Example

```
>>> # retrieve objects to be associated
>>> md = isogeo.metadata.get(
    metadata_id=my_metadata_uuid,
    include=['specifications']
)
>>> spec = isogeo.specification.get(my_specification_uuid)
>>> # associate them
>>> isogeo.specification.associate_metadata(
    metadata=md,
    specification=spec,
    conformity=1
)
```

Return type*Response*

create(*workgroup_id*, *check_exists=1*, *specification*={'_abilities': None, '_id': None, '_tag': None, 'count': None, 'link': None, 'name': None, 'owner': None, 'published': None}, *caching=1*)

Add a new specification to a workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **check_exists** (*int*) – check if a specification already exists inot the workgroup:
 - 0 = no check
 - 1 = compare name [DEFAULT]

Parameters

- **specification** (*class*) – Specification model object to create
- **caching** (*bool*) – option to cache the response

Return type*Specification*

delete(*workgroup_id*, *specification_id*)

Delete a specification from Isogeo database.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **specification_id** (*str*) – identifier of the resource to delete

Return type*dict*

dissociate_metadata(*metadata, specification_id*)

Removes the association between a metadata and a specification.

If the specified specification is not associated, the response is 404.

Parameters

- **metadata** (*Metadata*) – metadata object to update
- **specification_id** (*Specification*) – specification model object to associate

Return type

Response

exists(*specification_id*)

Check if the specified specification exists and is available for the authenticated user.

Parameters

specification_id (*str*) – identifier of the specification to verify

Return type

bool

get(*specification_id*)

Get a specification.

Parameters

specification_id (*str*) – specification UUID

Return type

Specification

listing(*workgroup_id=None, include=('_abilities', 'count'), caching=1*)

Get workgroup specifications.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup
- **include** (*tuple*) – additional parts of model to include in response
- **caching** (*bool*) – option to cache the response

Return type

list

update(*specification, caching=1*)

Update a specification owned by a workgroup.

Parameters

- **specification** (*class*) – Specification model object to update
- **caching** (*bool*) – option to cache the response

Return type

Specification

isogeo_pysdk.api.routes_thesaurus module

Isogeo API v1 - API Routes for Thesaurus entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_thesaurus.ApiThesaurus`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate thesaurus.

thesauri(*caching=1*)

Get all thesauri.

Return type

`list`

thesaurus(*thesaurus_id='1616597fbc4348c8b11ef9d59cf594c8', include=('_abilities',)*)

Get a thesaurus.

Parameters

- **thesaurus_id** (*str*) – thesaurus UUID
- **include** (*list*) – subresources that should be returned. Available values:
 - `'_abilities'`
 - `'count'`

Return type

`Thesaurus`

isogeo_pysdk.api.routes_user module

Isogeo API v1 - API Routes for Users entities

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.api.routes_user.ApiUser`(*api_client=None*)

Bases: `object`

Routes as methods of Isogeo API used to manipulate users.

create(*user=<class 'isogeo_pysdk.models.user.User'>, check_exists=1*)

Add a new user to Isogeo.

Parameters

- **user** (*class*) – User model object to create
- **check_exists** (*bool*) – check if a user already exists:
 - 0 = no check
 - 1 = compare email [DEFAULT]

Return type

`User`

delete(*user*)

Delete an user.

Parameters

user (*class*) – User model object to be deleted

Return type

User

get(*user_id*, *include='_abilities'*)

Get details about a specific user.

Parameters

- **user_id** (*str*) – user UUID
- **include** (*list*) – additional subresource to include in the response

Return type

User

listing()

Get registered users.

Example

```
>>> # get all registered users
>>> users = isogeo.user.listing()
>>> print(len(users))
925
>>> # filter on staff users (as list)
>>> staff = [user for user in users if user.get("staff")]
>>> print(len(staff))
10
>>> # filter on users with an email from isogeo(as list)
>>> users_isogeo = [user for user in users if "@isogeo" in user.get("contact").
->get("email")]
>>> print(len(users_isogeo))
37
```

Return type

list

memberships(*user_id*)

Returns memberships for the specified user.

Parameters

user_id (*str*) – user UUID

Return type

dict

subscriptions(*user*, *subscription*, *subscribe*)

Subscribe or unsubscribe an user to/from one of the available subscriptions.

Parameters

- **user** (*class*) – User model object to be updated

- **subscription** (*str*) – subscription (newsletter) targeted. Must be one of: NewReleases | TipsAndTricks
- **subscribe** (*bool*) – subscribe (1) or unsubscribe (0)

Return type*User***Example**

```
# retrieve the user
uzer = isogeo.user.get(user_id={user_uuid})

# unsubscribe the user from the newsletter 'TipsAndTricks'
isogeo.user.subscriptions(uzer, "TipsAndTricks", 0)

# subscribe the user to the newsletter 'NewReleases'
isogeo.user.subscriptions(uzer, "TipsAndTricks", 0)
```

update(*user*)

Update an user.

Parameters**user** (*class*) – User model object to be updated**Return type***User***Example**

```
# retrieve the user
uzer = isogeo.user.get(user_id={user_uuid})

# unsubscribe the user from a newsletter
uzer.mailchimp.get("subscriptions")[0]["isInterested"] = False

# update it online
isogeo.user.update(uzer)
```

isogeo_pysdk.api.routes_workgroup module

Isogeo API v1 - API Routes for Workgroups entities

See: <http://help.isogeo.com/api/complete/index.html#tag-workgroup>**class** `isogeo_pysdk.api.routes_workgroup.ApiWorkgroup`(*api_client=None*)Bases: `object`

Routes as methods of Isogeo API used to manipulate workgroups.

coordinate_systems(*workgroup_id, caching=1*)Returns coordinate-systems for the specified workgroup. It's just an alias for the `ApiCoordinateSystem.listing` method.**Parameters**

- **workgroup_id** (*str*) – workgroup UUID
- **caching** (*bool*) – option to cache the response

Return type

list

create(*workgroup*, *check_exists=1*)

Add a new workgroup to Isogeo.

Parameters

- **workgroup** (*class*) – Workgroup model object to create
- **check_exists** (*int*) – check if a workgroup already exists:
 - 0 = no check
 - 1 = compare name [DEFAULT]

Return type

Workgroup

delete(*workgroup_id*)

Delete a workgroup from Isogeo database.

Parameters

workgroup_id (*str*) – identifier of the workgroup

exists(*workgroup_id*)

Check if the specified workgroup exists and is available for the authenticated user.

Parameters

workgroup_id (*str*) – identifier of the workgroup to verify

Return type

bool

get(*workgroup_id*, *include=('_abilities', 'limits')*)

Get details about a specific workgroup.

Parameters

- **workgroup_id** (*str*) – workgroup UUID
- **include** (*tuple*) – additional subresource to include in the response

Return type

Workgroup

invitations(*workgroup_id*)

Returns active invitations (including expired) for the specified workgroup. Just a shortcut.

Parameters

workgroup_id (*str*) – workgroup UUID

Return type

dict

invite(*workgroup_id*, *invitation*)

Invite new user to a workgroup. Just a shortcut.

Parameters

- **workgroup_id** (*str*) – workgroup UUID
- **invitation** (*Invitation*) – Invitation object to send

Return type

dict

limits(*workgroup_id*)

Returns limits for the specified workgroup.

Parameters**workgroup_id** (*str*) – workgroup UUID**Return type**

dict

listing(*include=('_abilities', 'limits'), caching=1*)

Get workgroups.

Parameters

- **include** (*list*) – additional subresource to include in the response
- **caching** (*bool*) – option to cache the response

Return type

list

memberships(*workgroup_id*)

Returns memberships for the specified workgroup.

Parameters**workgroup_id** (*str*) – workgroup UUID**Return type**

dict

statistics(*workgroup_id*)

Returns statistics for the specified workgroup.

Parameters**workgroup_id** (*str*) – workgroup UUID**Return type**

dict

statistics_by_tag(*workgroup_id, tag*)Returns statistics for the specified workgroup. See: <http://help.isogeo.com/api/complete/index.html#operation-groups-gid-statistics-tag-tag-get>Be careful: if an invalid character is present into the response (e.g. `contact.name = 'bureau GF-3A'`), a `ConnectionError / ReadTimeout` will be raised.**Parameters**

- **workgroup_id** (*str*) – workgroup UUID
- **tag** (*str*) – tag name. Must be one of: `catalog`, `contact`, `coordinate-system`, `format`, `keyword:inspire-theme`, `keyword`, `owner`

Return type

dict

update(*workgroup, caching=1*)

Update a workgroup owned by a workgroup.

Parameters

- **workgroup** (*class*) – Workgroup model object to update
- **caching** (*bool*) – option to cache the response

Return type
Workgroup

isogeo_pysdk.enums package

Submodules

isogeo_pysdk.enums.application_types module

Isogeo API v1 - Enums for Resource entity accepted kinds

See: <http://help.isogeo.com/api/complete/index.html#definition-application>

class isogeo_pysdk.enums.application_types.**ApplicationTypes**(*value*)

Bases: `Enum`

Closed list of accepted Application (metadata subresource) kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_kind in ApplicationTypes:
>>>     print("{0:<30} {1:>20}".format(md_kind, md_kind.value))
Enum                                     Value
ApplicationTypes.group                  1
ApplicationTypes.user                   2
```

```
>>> # check if a var is an accepted value
>>> print("group" in ApplicationTypes.__members__)
True
>>> print("User" in ApplicationTypes.__members__) # case sensitive
False
>>> print("confidential" in ApplicationTypes.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

group = 1

user = 2

isogeo_pysdk.enums.bulk_actions module

Isogeo API v1 - Enums for Resource entity accepted kinds

See: <http://help.isogeo.com/api/complete/index.html#definition-application>

class `isogeo_pysdk.enums.bulk_actions.BulkActions`(*value*)

Bases: `Enum`

Closed list of accepted Application (metadata subresource) kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_kind in BulkActions:
>>>     print("{0:<30} {1:>20}".format(md_kind, md_kind.value))
Enum                                     Value
BulkActions.add                         1
BulkActions.delete                       2
BulkActions.update                       3
```

```
>>> # check if a var is an accepted value
>>> print("add" in BulkActions.__members__)
True
>>> print("Delete" in BulkActions.__members__) # case sensitive
False
>>> print("truncate" in BulkActions.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

add = 1

delete = 2

update = 3

isogeo_pysdk.enums.bulk_ignore_reasons module

Isogeo API v1 - Enums for bulk ignore reasons

class `isogeo_pysdk.enums.bulk_ignore_reasons.BulkIgnoreReasons`(*value*)

Bases: `Enum`

Closed list of accepted Application (metadata subresource) kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_kind in BulkIgnoreReasons:
>>>     print("{0:<30} {1:>20}".format(md_kind, md_kind.value))
Enum                                     Value
BulkIgnoreReasons.AlreadyPresent        1
BulkIgnoreReasons.Forbidden             2
```

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BulkIgnoreReasons.Invalid	3
BulkIgnoreReasons.NotApplicable	4
BulkIgnoreReasons.NotFound	5

```
>>> # check if a var is an accepted value
>>> print("alreadyPresent" in BulkIgnoreReasons.__members__)
True
>>> print("NotValid" in BulkIgnoreReasons.__members__) # case sensitive
False
>>> print("NotExists" in BulkIgnoreReasons.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

```
alreadyPresent = 1
forbidden = 2
invalid = 3
notApplicable = 4
notFound = 5
```

isogeo_pysdk.enums.bulk_targets module

Isogeo API v1 - Enums for Resource entity accepted kinds

See: <http://help.isogeo.com/api/complete/index.html#definition-application>

class `isogeo_pysdk.enums.bulk_targets.BulkTargets(value)`

Bases: `Enum`

Closed list of accepted Application (metadata subresource) kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_kind in BulkTargets:
>>>     print("{0:<30} {1:>20}".format(md_kind, md_kind.value))
Enum                                Value
BulkTargets.title                   1
BulkTargets.abstract                 2
BulkTargets.keywords                 3
```

```
>>> # check if a var is an accepted value
>>> print("title" in BulkTargets.__members__)
True
>>> print("Delete" in BulkTargets.__members__) # case sensitive
False
>>> print("truncate" in BulkTargets.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

```

abstract = 2
catalogs = 4
codePage = 12
collectionContext = 6
collectionMethod = 7
contacts = 5
distance = 10
keywords = 3
scale = 11
title = 1
validFrom = 8
validityComment = 9

```

isogeo_pysdk.enums.catalog_statistics_tags module

Isogeo API v1 - Enums for Catalog statistics entity accepted tags

See: <http://help.isogeo.com/api/complete/index.html#operation-groups-gid-statistics-tag-tag-get>

class isogeo_pysdk.enums.catalog_statistics_tags.**CatalogStatisticsTags**(*value*)

Bases: `Enum`

Closed list of accepted tags for workgroup statistics in Isogeo API (used by the dashboard).

Example

```

>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for tag in CatalogStatisticsTags:
>>>     print("{0:<30} {1:>20}".format(tag, tag.value))
Enum                                     Value
CatalogStatisticsTags.catalog           catalog
CatalogStatisticsTags.coordinateSystem  coordinate-system
CatalogStatisticsTags.format            format
CatalogStatisticsTags.inspireTheme      keyword:inspire-theme
CatalogStatisticsTags.owner             owner

```

```

>>> # check if a var is an accepted value
>>> print("catalog" in CatalogStatisticsTags.__members__)
True
>>> print("Catalog" in CatalogStatisticsTags.__members__) # case_
↳ sensitive
False
>>> print("coordinate-system" in CatalogStatisticsTags.__members__)

```

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```
False
>>> print("coordinateSystem" in CatalogStatisticsTags.__members__)
True
```

See: <https://docs.python.org/3/library/enum.html>

```
contact = 'contact'

coordinateSystem = 'coordinate-system'

format = 'format'

classmethod has_value(value)

inspireTheme = 'keyword:inspire-theme'

keyword = 'keyword'
```

isogeo_pysdk.enums.contact_roles module

Isogeo API v1 - Enums for ResourceContact entity accepted roles

See: <http://help.isogeo.com/api/complete/index.html#/definitions/resourceContact>

```
class isogeo_pysdk.enums.contact_roles.ContactRoles(value)
```

Bases: `Enum`

Closed list of accepted Contact roles in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for role in ContactRoles:
>>>     print("{0:<30} {1:>20}".format(role, role.value))
Enum                                     Value
ContactRoles.author                     author
ContactRoles.pointOfContact              pointOfContact
...
```

```
>>> # check if a var is an accepted value
>>> print("author" in ContactRoles.__members__)
True
>>> print("Author" in ContactRoles.__members__) # case sensitive
False
>>> print("follower" in ContactRoles.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

```
author = 'author'

custodian = 'custodian'

distributor = 'distributor'
```

```

originator = 'originator'
owner = 'owner'
pointOfContact = 'pointOfContact'
principalInvestigator = 'principalInvestigator'
processor = 'processor'
publisher = 'publisher'
resourceProvider = 'resourceProvider'
user = 'user'

```

isogeo_pysdk.enums.contact_types module

Isogeo API v1 - Enums for Contact entity accepted types

See: <http://help.isogeo.com/api/complete/index.html#/definitions/resourceContact>

class isogeo_pysdk.enums.contact_types.**ContactTypes**(*value*)

Bases: Enum

Closed list of accepted Contact types in Isogeo API.

Example

```

>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in ContactTypes:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                Value
ContactTypes.custom                 1
ContactTypes.group                   2
ContactTypes.user                     3

```

```

>>> # check if a var is an accepted value
>>> print("group" in ContactTypes.__members__)
True
>>> print("Custom" in ContactTypes.__members__) # case sensitive
False
>>> print("global" in ContactTypes.__members__)
False

```

See: <https://docs.python.org/3/library/enum.html>

custom = 1

group = 2

user = 3

isogeo_pysdk.enums.edition_profiles module

Isogeo API v1 - Enums for Resource entity accepted types

See: <http://help.isogeo.com/api/complete/index.html#/definitions/resourceMetadata>

class isogeo_pysdk.enums.edition_profiles.**EditionProfiles**(value)

Bases: Enum

Closed list of accepted edition profiles values in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in EditionProfiles:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
EditionProfiles.csw                     1
EditionProfiles.manual                   2
```

```
>>> # check if a var is an accepted value
>>> print("rasterDataset" in EditionProfiles.__members__)
True
>>> print("Service" in EditionProfiles.__members__) # case sensitive
False
>>> print("dataset" in EditionProfiles.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

csw = 1

manual = 2

isogeo_pysdk.enums.event_kinds module

Isogeo API v1 - Enums for Resource entity accepted kinds

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceEvent>

class isogeo_pysdk.enums.event_kinds.**EventKinds**(value)

Bases: Enum

Closed list of accepted Event (metadata subresource) kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_kind in EventKinds:
>>>     print("{0:<30} {1:>20}".format(md_kind, md_kind.value))
Enum                                     Value
EventKinds.creation                     1
EventKinds.publication                   2
EventKinds.update                         3
```

```

>>> # check if a var is an accepted value
>>> print("creation" in EventKinds.__members__)
True
>>> print("Update" in EventKinds.__members__) # case sensitive
False
>>> print("modification" in EventKinds.__members__)
False

```

See: <https://docs.python.org/3/library/enum.html>

creation = 1

publication = 2

update = 3

isogeo_pysdk.enums.keyword_casing module

Isogeo API v1 - Enums for Workgroup's keywords casing

See: <http://help.isogeo.com/api/complete/index.html#definition-workgroup>

class isogeo_pysdk.enums.keyword_casing.**KeywordCasing**(value)

Bases: Enum

Closed list of accepted Keyword casing in Isogeo API.

Example

```

>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in KeywordCasing:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
KeywordCasing.capitalized                1
KeywordCasing.lowercase                   2
KeywordCasing.mixedcase                   3
KeywordCasing.uppercase                   4

```

```

>>> # check if a var is an accepted value
>>> print("capitalized" in KeywordCasing.__members__)
True
>>> print("Uppercase" in KeywordCasing.__members__) # case sensitive
False
>>> print("initials" in KeywordCasing.__members__)
False

```

See: <https://docs.python.org/3/library/enum.html>

capitalized = 1

lowercase = 2

mixedcase = 3

uppercase = 4

isogeo_pysdk.enums.limitation_restrictions module

Isogeo API v1 - Enums for Limitation restrictions entity accepted values.

See: <http://help.isogeo.com/api/complete/index.html>

class isogeo_pysdk.enums.limitation_restrictions.**LimitationRestrictions**(*value*)

Bases: Enum

Closed list of accepted restrictions for limitations in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for tag in LimitationRestrictions:
>>>     print("{0:<30} {1:>20}".format(tag, tag.value))
Enum                                     Value
LimitationRestrictions.copyright        1
LimitationRestrictions.intellectualPropertyRights 2
LimitationRestrictions.license          3
LimitationRestrictions.other            4
LimitationRestrictions.patent           5
LimitationRestrictions.patentPending    6
LimitationRestrictions.trademark        7
```

```
>>> # check if a var is an accepted value
>>> print("license" in LimitationRestrictions.__members__)
True
>>> print("License" in LimitationRestrictions.__members__) # case_
↳sensitive
False
>>> print("other" in LimitationRestrictions.__members__)
True
```

See: <https://docs.python.org/3/library/enum.html>

copyright = 1

intellectualPropertyRights = 2

license = 3

other = 4

patent = 5

patentPending = 6

trademark = 7

isogeo_pysdk.enums.limitation_types module

Isogeo API v1 - Enums for Limitation types entity accepted values.

See: <http://help.isogeo.com/api/complete/index.html>

class `isogeo_pysdk.enums.limitation_types.LimitationTypes`(*value*)

Bases: `Enum`

Closed list of accepted types for limitations in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for tag in LimitationTypes:
>>>     print("{0:<30} {1:>20}".format(tag, tag.value))
Enum                                     Value
LimitationTypes.legal                   1
LimitationTypes.security                 2
```

```
>>> # check if a var is an accepted value
>>> print("legal" in LimitationTypes.__members__)
True
>>> print("Legal" in LimitationTypes.__members__) # case sensitive
False
>>> print("security" in LimitationTypes.__members__)
True
```

See: <https://docs.python.org/3/library/enum.html>

legal = 1

security = 2

isogeo_pysdk.enums.link_actions module

Isogeo API v1 - Enums for Links actions

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceLink>

class `isogeo_pysdk.enums.link_actions.LinkActions`(*value*)

Bases: `Enum`

Closed list of accepted Link actions in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in LinkActions:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
LinkActions.download                    1
LinkActions.other                       2
LinkActions.view                        3
```

```
>>> # check if a var is an accepted value
>>> print("download" in LinkActions.__members__)
True
>>> print("Other" in LinkActions.__members__) # case sensitive
False
>>> print("extract" in LinkActions.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

download = 1

other = 2

view = 3

isogeo_pysdk.enums.link_kinds module

Isogeo API v1 - Enums for Links kinds

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceLink>

class isogeo_pysdk.enums.link_kinds.LinkKinds(*value*)

Bases: Enum

Closed list of accepted Link kinds in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in LinkKinds:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
LinkKinds.data                          1
LinkKinds.esriFeatureService             2
LinkKinds.esriMapService                 3
LinkKinds.esriTileService                4
LinkKinds.url                            5
LinkKinds.wfs                            6
LinkKinds.wms                            7
LinkKinds.wmts                           8
```

```
>>> # check if a var is an accepted value
>>> print("data" in LinkKinds.__members__)
True
>>> print("EsriFeatureService" in LinkKinds.__members__) # case_
↪sensitive
False
>>> print("csw" in LinkKinds.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

```

data = 1
esriFeatureService = 2
esriMapService = 3
esriTileService = 4
url = 5
wfs = 6
wms = 7
wmts = 8

```

isogeo_pysdk.enums.link_types module

Isogeo API v1 - Enums for Links types

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceLink>

```
class isogeo_pysdk.enums.link_types.LinkTypes(value)
```

Bases: Enum

Closed list of accepted Link types in Isogeo API.

Example

```

>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in LinkTypes:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
LinkTypes.hosted                       1
LinkTypes.link                          2
LinkTypes.url                           3

```

```

>>> # check if a var is an accepted value
>>> print("hosted" in LinkTypes.__members__)
True
>>> print("Link" in LinkTypes.__members__) # case sensitive
False
>>> print("external" in LinkTypes.__members__)
False

```

See: <https://docs.python.org/3/library/enum.html>

```

hosted = 1
link = 2
url = 3

```

isogeo_pysdk.enums.metadata_subresources module

Isogeo API v1 - Enums for Metadata subresources

See: <http://help.isogeo.com/api/complete/index.html#operation-resources-id-get>

class isogeo_pysdk.enums.metadata_subresources.**MetadataSubresources**(*value*)

Bases: Enum

Closed list of accepted Metadata subresources that can be passed in *_include* queries paramater.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in MetadataSubresources:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
MetadataSubresources.tags                1
MetadataSubresources.link                 2
MetadataSubresources.url                  3
```

```
>>> # check if a var is an accepted value
>>> print("tags" in MetadataSubresources.__members__)
True
>>> print("Links" in MetadataSubresources.__members__) # case sensitive
False
>>> print("attributes" in MetadataSubresources.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

conditions = 'conditions'

contacts = 'contacts'

coordinateSystem = 'coordinate-system'

events = 'events'

featureAttributes = 'feature-attributes'

classmethod **has_value**(*value*)

keywords = 'keywords'

layers = 'layers'

limitations = 'limitations'

links = 'links'

operations = 'operations'

serviceLayers = 'serviceLayers'

specifications = 'specifications'

tags = 'tags'

isogeo_pysdk.enums.metadata_types module

Isogeo API v1 - Enums for Resource entity accepted types

See: <http://help.isogeo.com/api/complete/index.html#/definitions/resourceMetadata>

class `isogeo_pysdk.enums.metadata_types.MetadataTypes(value)`

Bases: `Enum`

Closed list of accepted Metadata (= Resource) types in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for md_type in MetadataTypes:
>>>     print("{0:<30} {1:>20}".format(md_type, md_type.value))
Enum                                     Value
MetadataTypes.noGeoDataset             no-geo-dataset
MetadataTypes.rasterDataset            raster-dataset
MetadataTypes.resource                  resource
MetadataTypes.service                   service
MetadataTypes.vectorDataset            vector-dataset
```

```
>>> # check if a var is an accepted value
>>> print("rasterDataset" in MetadataTypes.__members__)
True
>>> print("Service" in MetadataTypes.__members__) # case sensitive
False
>>> print("dataset" in MetadataTypes.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

`dataset = 'dataset'`

`classmethod has_value(value)`

`noGeoDataset = 'no-geo-dataset'`

`rasterDataset = 'raster-dataset'`

`resource = 'resource'`

`service = 'service'`

`vectorDataset = 'vector-dataset'`

isogeo_pysdk.enums.search_filters_georelations module

Isogeo API v1 - Enums for Search geographic filter's geometric relationship

class isogeo_pysdk.enums.search_filters_georelations.**SearchGeoRelations**(*value*)

Bases: Enum

Closed list of accepted geometric relationship as search filters.

Example

```

>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in SearchGeoRelations:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
SearchGeoRelations.contains             1
SearchGeoRelations.disjoint             2
SearchGeoRelations.equal                3
SearchGeoRelations.intersects           4
SearchGeoRelations.overlaps             5
SearchGeoRelations.within               6

```

```

>>> # check if a var is an accepted value
>>> print("contains" in SearchGeoRelations.__members__)
True
>>> print("Overlaps" in SearchGeoRelations.__members__) # case_
↳sensitive
False
>>> print("crosses" in SearchGeoRelations.__members__)
False

```

See: <https://docs.python.org/3/library/enum.html>**contains** = 1**disjoint** = 2**equal** = 3**classmethod** **has_value**(*value*)**intersects** = 4**overlaps** = 5**within** = 6

isogeo_pysdk.enums.session_status module

Isogeo API v1 - Enums for Session entity accepted status

See: <http://help.isogeo.com/api/complete/index.html#definition-session>

class `isogeo_pysdk.enums.session_status.SessionStatus`(*value*)

Bases: `Enum`

Closed list of accepted session (CSW) status values in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in SessionStatus:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
SessionStatus.canceled                  1
SessionStatus.failed                     2
SessionStatus.started                    3
SessionStatus.succeeded                  4
```

```
>>> # check if a var is an accepted value
>>> print("started" in SessionStatus.__members__)
True
>>> print("Failed" in SessionStatus.__members__) # case sensitive
False
>>> print("aborted" in SessionStatus.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

canceled = 1

failed = 2

started = 3

succeeded = 4

isogeo_pysdk.enums.share_types module

Isogeo API v1 - Enums for Share entity accepted types.

See: <http://help.isogeo.com/api/complete/index.html#definition-share>

class `isogeo_pysdk.enums.share_types.ShareTypes`(*value*)

Bases: `Enum`

Closed list of accepted session (CSW) status values in Isogeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for i in ShareTypes:
>>>     print("{0:<30} {1:>20}".format(i, i.value))
Enum                                     Value
ShareTypes.canceled                     1
ShareTypes.failed                       2
ShareTypes.started                      3
ShareTypes.succeeded                    4
```

```
>>> # check if a var is an accepted value
>>> print("application" in ShareTypes.__members__)
True
>>> print("Group" in ShareTypes.__members__) # case sensitive
False
>>> print("user" in ShareTypes.__members__)
False
```

See: <https://docs.python.org/3/library/enum.html>

application = 1

group = 2

isgeo_pysdk.enums.user_roles module

Isgeo API v1 - Enums for ResourceContact entity accepted roles

See: <http://help.isgeo.com/api/complete/index.html#definition-user>

class isgeo_pysdk.enums.user_roles.**UserRoles**(value)

Bases: Enum

Closed list of accepted Contact roles in Isgeo API.

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for role in UserRoles:
>>>     print("{0:<30} {1:>20}".format(role, role.value))
Enum                                     Value
UserRoles.admin                         admin
UserRoles.writer                        writer
...
```

```
>>> # check if a var is an accepted value
>>> print("admin" in UserRoles.__members__)
True
>>> print("Author" in UserRoles.__members__) # case sensitive
False
>>> print("follower" in UserRoles.__members__)
False
```


See: <https://docs.python.org/3/library/enum.html>

```
admin = 'admin'
reader = 'reader'
writer = 'writer'
```

isogeo_pysdk.enums.workgroup_statistics_tags module

Isogeo API v1 - Enums for Workgroup statistics entity accepted tags

See: <http://help.isogeo.com/api/complete/index.html#operation-groups-gid-statistics-tag-tag-get>

class isogeo_pysdk.enums.workgroup_statistics_tags.**WorkgroupStatisticsTags**(*value*)

Bases: Enum

Closed list of accepted tags for workgroup statistics in Isogeo API (used by the dashboard).

Example

```
>>> # parse members and values
>>> print("{0:<30} {1:>20}".format("Enum", "Value"))
>>> for tag in WorkgroupStatisticsTags:
>>>     print("{0:<30} {1:>20}".format(tag, tag.value))
Enum                                     Value
WorkgroupStatisticsTags.catalog         catalog
WorkgroupStatisticsTags.coordinateSystem coordinate-system
WorkgroupStatisticsTags.format           format
WorkgroupStatisticsTags.inspireTheme     keyword:inspire-theme
WorkgroupStatisticsTags.owner            owner
```

```
>>> # check if a var is an accepted value
>>> print("catalog" in WorkgroupStatisticsTags.__members__)
True
>>> print("Catalog" in WorkgroupStatisticsTags.__members__) # case_
↳sensitive
False
>>> print("coordinate-system" in WorkgroupStatisticsTags.__members__)
False
>>> print("coordinateSystem" in WorkgroupStatisticsTags.__members__)
True
```

See: <https://docs.python.org/3/library/enum.html>

```
catalog = 'catalog'
contact = 'contact'
coordinateSystem = 'coordinate-system'
format = 'format'
classmethod has_value(value)
inspireTheme = 'keyword:inspire-theme'
```

```
keyword = 'keyword'
```

```
owner = 'owner'
```

isogeo_pysdk.models package

Submodules

isogeo_pysdk.models.application module

Isogeo API v1 - Model of Application entity

See: <http://help.isogeo.com/api/complete/index.html#definition-application>

```
class isogeo_pysdk.models.application.Application(_abilities=None, _created=None, _id=None,
                                                _modified=None, canHaveManyGroups=None,
                                                client_id=None, client_secret=None,
                                                groups=None, kind=None, name=None,
                                                redirect_uris=None, scopes=None, staff=None,
                                                type=None, url=None)
```

Bases: `object`

Applications are entities which can be used in shares.

Example

```
{
  "_abilities": [
    "application:delete",
    "application:manage",
    "application:update"
  ],
  "_created": "2018-02-13T16:53:37.4622+00:00",
  "_id": "2ad9ccd2c76a4fc3be9f8de4239701df",
  "_modified": "2018-02-13T16:53:43.085621+00:00",
  "canHaveManyGroups": true,
  "client_id": "plugin-arcmap-client-987a654z321e234r567t890y987u654i",
  "client_secret":
  ↪ "LoremipsumdolorsitametconsecteturadipiscingelitDonecmaurismauris",
  "groups": [
    'groups': [{'_created': '2015-05-21T12:08:16.4295098+00:00',
                '_id': '32f7e95ec4e94ca3bc1afda960003882',
                '_modified': '2019-05-03T10:31:01.4796052+00:00',
                'canHaveManyGroups': 'groups:32f7e95ec4e94ca3bc1afda960003882',
                'areKeywordsRestricted': True,
                'canCreateLegacyServiceLinks': True,
                'canCreateMetadata': True,
                'contact': {'_deleted': False,
                           '_id': '2a3aefc4f80347f590afe58127f6cb0f',
                           'canHaveManyGroups':
                ↪ 'contact:group:2a3aefc4f80347f590afe58127f6cb0f',
                           'addressLine1': '26 rue du faubourg Saint-Antoine',
                           'addressLine2': '4 éme étage',
```

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```

        'available': True,
        'city': 'Paris',
        'client_secretCode': 'FR',
        'email': 'dev@isogeo.com',
        'fax': '33 (0)9 67 46 50 06',
        'name': 'Isogeo Test',
        'phone': '33 (0)9 67 46 50 06',
        'type': 'group',
        'zipCode': '75012'},
    'hasCswClient': True,
    'hasScanFme': True,
    'keywordsCasing': 'lowercase',
    'metadataLanguage': 'fr',
    'themeColor': '#4499A1'}
],
"kind": "public",
"name": "Plugin ArcMap - DEV",
"scopes": [
    "resources:read"
],
"staff": false,
"type": "group",
"url": "http://help.isogeo.com/arcmap/"
}

```

```
ATTR_CREA = {'canHaveManyGroups': <class 'bool'>, 'name': <class 'str'>,
'redirect_uris': <class 'list'>, 'scopes': <class 'list'>, 'staff': <class
'bool'>, 'type': <class 'str'>, 'url': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id':
<class 'str'>, '_modified': <class 'str'>, 'canHaveManyGroups': <class 'bool'>,
'client_id': <class 'str'>, 'client_secret': <class 'str'>, 'groups': <class
'list'>, 'kind': <class 'str'>, 'name': <class 'str'>, 'redirect_uris': <class
'list'>, 'scopes': <class 'list'>, 'staff': <class 'bool'>, 'type': <class
'str'>, 'url': <class 'str'>}
```

```
admin_url(url_base='https://manage.isogeo.com')
```

Returns the administration URL (<https://manage.isogeo.com>) for this application.

Parameters

url_base (*str*) – base URL of admin site. Defaults to: <https://manage.isogeo.com>

Return type

str

property canHaveManyGroups: *bool*

Gets the option of this Application.

Returns

The option of this Application.

Return type

bool

property client_id: str

Gets the client_id of this Application.

Returns

The client_id of this Application.

Return type

str

property client_secret: str

Gets the client_secret of this Application.

Returns

The client_secret of this Application.

Return type

str

property groups

Gets the groups of this Application. # noqa: E501.

Returns

The groups of this Application. # noqa: E501

Return type

Workgroup

property kind: str

Gets the kind of this Application.

Returns

The kind of this Application.

Return type

str

property name: str

Gets the name of this Application.

Returns

The name of this Application.

Return type

str

property redirect_uris: list

Gets the redirect_uris of this Application.

Returns

The redirect_uris of this Application.

Return type

list

property scopes

Gets the scopes of this Application. # noqa: E501.

Returns

The scopes of this Application. # noqa: E501

Return type

Workgroup

property staff: `bool`

Gets the staff of this Application.

Returns

The staff of this Application.

Return type

`bool`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property type

Gets the type of this Application. # noqa: E501.

Returns

The type of this Application. # noqa: E501

Return type

`str`

property url: `str`

Gets the url of this Application.

Returns

The url of this Application.

Return type

`str`

isogeo_pysdk.models.bulk_report module

Isogeo API v1 - Model of Metadata bulk report

See: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/133>

class `isogeo_pysdk.models.bulk_report.BulkReport` (*ignored=None, request=None*)

Bases: `object`

Bulk report used to perform batch operation add/remove/update on Isogeo resources (= metadatas)

```
ATTR_TYPES = {'ignored': <class 'dict'>, 'request': <class
'isogeo_pysdk.models.bulk_request.BulkRequest'>}
```

property ignored: `dict`

Gets the ignored operations of this Bulk Request.

Returns

igno of this Bulk Request.

Return type

`dict`

property request: `BulkRequest`

Gets the created of this Bulk Request.

Returns

The created of this Bulk Request.

Return type

`BulkRequest`

to_dict()

Returns the request properties as a dict.

Return type

`dict`

to_str()

Returns the string representation of the request.

Return type

`str`

isogeo_pysdk.models.bulk_request module

Isogeo API v1 - Model of Metadata bulk request

See: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/133>

```
class isogeo_pysdk.models.bulk_request.BulkRequest(action=None, model=None, query=None, target=None)
```

Bases: `object`

Bulk request used to perform batch operation add/remove/update on Isogeo resources (= metadatas)

```
ATTR_TYPES = {'action': <class 'object'>, 'model': <class 'int'>, 'query': <class 'dict'>, 'target': <class 'list'>}
```

property action: `str`

Gets the abilities of this Bulk Request.

Returns

The abilities of this Bulk Request.

Return type

`str`

property model: `list`

Gets the created of this Bulk Request.

Returns

The created of this Bulk Request.

Return type

list

property query: dict

Gets the modified of this Bulk Request.

Returns

The modified of this Bulk Request.

Return type

dict

property target: str

Gets the tag of this Bulk Request.

Returns

The tag of this Bulk Request.

Return type

str

to_dict()

Returns the model properties as a dict.

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.catalog module

Isogeo API v1 - Model of Catalog entity

See: <http://help.isogeo.com/api/complete/index.html#definition-catalog>

```
class isogeo_pysdk.models.catalog.Catalog(_abilities=None, _created=None, _id=None,
                                         _modified=None, _tag=None, code=None, count=None,
                                         name=None, owner=None, scan=None)
```

Bases: object

Catalogs are entities used to organize and shares metadata of a workgroup.

Example

```
{
  '$scan': boolean,
  '_abilities': array,
  '_created': string (datetime),
  '_id': string (uuid),
  '_modified': string (datetime),
  '_tag': string,
  'code': string,
  'count': integer,
  'name': string,
```

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```

'owner': {
  '_created': string (datetime),
  '_id': string (uuid),
  '_modified': string (datetime),
  '_tag': string,
  'areKeywordsRestricted': boolean,
  'canCreateLegacyServiceLinks': boolean,
  'canCreateMetadata': boolean,
  'contact': {
    '_deleted': boolean,
    '_id': string (uuid),
    '_tag': string,
    'addressLine1': string,
    'addressLine2': string,
    'available': boolean,
    'city': string,
    'countryCode': string,
    'email': string (email),
    'fax': string,
    'name': string,
    'phone': string,
    'type': string,
    'zipCode': string
  },
  'hasCswClient': boolean,
  'hasScanFme': boolean,
  'keywordsCasing': string,
  'metadataLanguage': string
}
}

```

```
ATTR_CREA = {'code': <class 'str'>, 'name': <class 'str'>, 'scan': <class 'bool'>}
```

```
ATTR_MAP = {'scan': '$scan'}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id': <class 'str'>, '_modified': <class 'str'>, '_tag': <class 'str'>, 'code': <class 'str'>, 'count': <class 'int'>, 'name': <class 'str'>, 'owner': <class 'isogeo_pysdk.models.workgroup.Workgroup'>, 'scan': <class 'bool'>}
```

classmethod `clean_attributes`(*raw_object*)

Renames attributes wich are incompatible with Python (hyphens...).

See related issue: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/82>

property `code`: `str`

Gets the code of this Catalog.

Returns

The code of this Catalog.

Return type

`str`

property count: `str`

Gets the count of this Catalog.

Returns

The count of this Catalog.

Return type

`str`

property name: `str`

Gets the name of this Catalog.

Returns

The name of this Catalog.

Return type

`str`

property owner

Gets the owner of this Catalog. # noqa: E501.

Returns

The owner of this Catalog. # noqa: E501

Return type

Workgroup

property scan: `bool`

Gets the scan of this Catalog.

Returns

The scan of this Catalog.

Return type

`bool`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

isogeo_pysdk.models.condition module

Isogeo API v1 - Model of Condition entity

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceCondition>

```
class isogeo_pysdk.models.condition.Condition(_id=None, description=None, license=None, parent_resource=None)
```

Bases: `object`

Conditions are entities defining general conditions of use (CGUs) of a data. It's mainly composed by a license and a description.

Parameters

- **`_id`** (*str*) – object UUID
- **`description`** (*str*) – description of the condition
- **`license`** (*dict*) – license object or dict linked to the condition
- **`parent_resource`** (*str*) – UUID of the metadata containing the condition

Example

```
{
  "_id": "string (uuid)",
  "description": "string",
  "license": "string",
}
```

```
ATTR_CREA = {'description': 'str', 'license': <class 'isogeo_pysdk.models.license.License'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'description': <class 'str'>, 'license': <class 'isogeo_pysdk.models.license.License'>, 'parent_resource': <class 'str'>}
```

property description: `str`

Gets the description of this Condition.

Returns

The description of this Condition.

Return type

`str`

property license: `str`

Gets the license of this Condition.

Returns

The license of this Condition.

Return type

`str`

property parent_resource

Gets the `parent_resource` of this Condition.

Returns

The `parent_resource` of this Condition.

Return type

UUID

to_dict()

Returns the model properties as a dict.

Return type

dict

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.conformity module

Isogeo API v1 - Model of Conformity entity

See: <http://help.isogeo.com/api/complete/index.html#definition-resourceConformity>

```
class isogeo_pysdk.models.conformity.Conformity(conformant=None, specification=None, parent_resource=None)
```

Bases: `object`

Conformity is an entity defining if a data respects a specification. It's a quality indicator. It's mainly composed by a specification and a boolean.

Parameters

- **_id** (*str*) – object UUID
- **conformant** (*bool*) – conformity with the specification
- **specification** (*dict*) – specification object or dict linked to the conformity
- **parent_resource** (*str*) – UUID of the metadata containing the conformity

Example

```
{
  "conformant": "bool",
  "specification": "string",
}
```

```
ATTR_CREA = {'conformant': 'bool', 'specification': <class
'isogeo_pysdk.models.specification.Specification'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'conformant': <class 'bool'>, 'parent_resource': <class 'str'>,
'specification': <class 'isogeo_pysdk.models.specification.Specification'>}
```

property conformant: `bool`

Gets the conformant status.

Returns

The conformant status

Return type

`bool`

property parent_resource

Gets the parent_resource of this Conformity.

Returns

The parent_resource of this Conformity.

Return type

UUID

property specification: `Specification`

Gets the specification of this Conformity.

Returns

The specification of this Conformity.

Return type

`Specification`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

isogeo_pysdk.models.contact module

Isogeo API v1 - Model of Contact entity

See: <http://help.isogeo.com/api/complete/index.html#definition-contact>

```
class isogeo_pysdk.models.contact.Contact(_abilities=None, _deleted=None, _id=None, _tag=None,
addressLine1=None, addressLine2=None,
addressLine3=None, available=None, city=None,
count=None, countryCode=None, email=None, fax=None,
hash=None, name=None, organization=None, owner=None,
phone=None, type=None, zipCode=None, created=None,
modified=None)
```

Bases: `object`

Contacts are entities used into Isogeo adress book that can be associated to metadata.

```
ATTR_CREA = {'addressLine1': 'str', 'addressLine2': 'str', 'addressLine3': 'str',
'city': 'str', 'countryCode': 'str', 'email': 'str', 'fax': 'str', 'name':
'str', 'organization': 'str', 'phone': 'str', 'zipCode': 'str'}
```

```
ATTR_MAP = {'fax': 'faxNumber', 'organization': 'organizationName', 'phone':
'phoneNumber'}
```

```
ATTR_TYPES = {'_abilities': <class 'str'>, '_id': <class 'str'>, '_tag': <class
'str'>, 'addressLine1': <class 'str'>, 'addressLine2': <class 'str'>,
'addressLine3': <class 'str'>, 'city': <class 'str'>, 'count': <class 'int'>,
'countryCode': <class 'str'>, 'email': <class 'str'>, 'fax': <class 'str'>,
'hash': <class 'str'>, 'name': <class 'str'>, 'organization': <class 'str'>,
'owner': <class 'dict'>, 'phone': <class 'str'>, 'type': <class 'str'>,
'zipCode': <class 'str'>}
```

property addressLine1: `str`

Gets the id of this Contact.

Returns

The id of this Contact.

Return type

`str`

property addressLine2: `str`

Gets the id of this Contact.

Returns

The second address line of this Contact.

Return type

`str`

property addressLine3: `str`

Gets the third address line of this Contact.

Returns

The The third address line of this Contact.

Return type

`str`

property available: `bool`

Gets the availability of this Contact.

Returns

The availability of this Contact.

Return type

`str`

property city: `str`

Gets the city of this Contact.

Returns

The city of this Contact.

Return type

str

property count: int

Gets the id of this Contact.

Returns

The id of this Contact.

Return type

str

property countryCode: str

Gets the country code of this Contact.

Returns

The country code of this Contact.

Return type

str

property email: str

Gets the email of this Contact.

Returns

The email of this Contact.

Return type

str

property fax: str

Gets the fax of this Contact.

Returns

The fax of this Contact.

Return type

str

property hash: str

Gets the hash of this Contact.

Returns

The hash of this Contact.

Return type

str

property name: str

Gets the name of this Contact.

Returns

The name of this Contact.

Return type

str

property organization: str

Gets the organization of this Contact.

Returns

The organization of this Contact.

Return type`str`**property owner**

Gets the owner of this Specification.

Returns

The owner of this Specification.

Return type`Workgroup`**property phone: str**

Gets the phone number of this Contact.

Returns

The phone number of this Contact.

Return type`str`**to_dict()**

Returns the model properties as a dict.

Return type`dict`**to_dict_creation()**

Returns the model properties as a dict structured for creation purpose (POST)

Return type`dict`**to_str()**

Returns the string representation of the model.

Return type`str`**property type: str**

Gets the type of this Contact.

Returns

The type of this Contact.

Return type`str`**property zipCode: str**

Gets the zip (postal) code of this Contact.

Returns

The zip (postal) code of this Contact.

Return type`str`

isogeo_pysdk.models.coordinates_system module

Isogeo API v1 - Model of CoordinateSystem entity

See: <http://help.isogeo.com/api/complete/index.html>

```
class isogeo_pysdk.models.coordinates_system.CoordinateSystem(_tag=None, alias=None, code=None, name=None)
```

Bases: `object`

CoordinateSystems.

Example

```
{
  '_tag': 'coordinate-system:31154',
  'code': 31154,
  'name': 'Zanderij / TM 54 NW'
}
```

```
ATTR_CREA = {}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_tag': <class 'str'>, 'alias': <class 'str'>, 'code': <class 'str'>, 'name': <class 'str'>}
```

property alias: `str`

Gets the custom alias of this CoordinateSystem in a workgroup.

Returns

The alias of this CoordinateSystem in a workgroup.

Return type

`str`

property code: `str`

Gets the EPSG code of this CoordinateSystem.

Returns

The EPSG code of this CoordinateSystem.

Return type

`str`

property name: `str`

Gets the name of this CoordinateSystem.

Returns

The name of this CoordinateSystem.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.datasource module

Isogeo API v1 - Model of Datasource entity

See: <http://help.isogeo.com/api/complete/index.html#definition-datasource>

```
class isogeo_pysdk.models.datasource.Datasource(_created=None, _id=None, _modified=None,
                                             _tag=None, enabled=None, lastSession=None,
                                             location=None, name=None, resourceCount=None,
                                             sessions=None)
```

Bases: `object`

Datasources are CSW client entry-points.

Example

```
{
  '_created': '2019-05-17T13:56:56.6162418+00:00',
  '_id': '2c891ce8692146c4901115a4232b13a2',
  '_modified': '2019-05-17T13:57:50.4434219+00:00',
  '_tag': 'data-source:2c891ce8692146c4901115a4232b13a2',
  'enabled': True,
  'lastSession': {
    '_created': '2019-05-17T13:58:06.5165889+00:00',
    '_id': 'ea99c37d809c4b1b9b4f257326ad1975',
    '_modified': '2019-05-17T13:58:28.5554966+00:00',
    'status': 'failed'
  },
  'location': 'http://ogc.geo-ide.developpement-durable.gouv.fr/csw/all-
↪harvestable',
  'name': 'TEST - CSW entrypoint (datasource)',
  'resourceCount': 0,
  'sessions': [
    {
      '_created': '2019-05-17T13:58:06.5165889+00:00',
      '_id': 'ea99c37d809c4b1b9b4f257326ad1975',
      '_modified': '2019-05-17T13:58:28.5554966+00:00',
      'status': 'failed'
    }
  ]
}
```

```
ATTR_CREA = {'location': <class 'str'>, 'name': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_created': <class 'str'>, '_id': <class 'str'>, '_modified':  
<class 'str'>, '_tag': <class 'str'>, 'enabled': <class 'bool'>, 'lastSession':  
<class 'dict'>, 'location': <class 'str'>, 'name': <class 'str'>, 'resourceCount':  
<class 'bool'>, 'sessions': <class 'list'>}
```

property enabled: `bool`

Gets the enabled of this Datasource.

Returns

The enabled of this Datasource.

Return type

`str`

property lastSession: `dict`

Gets the lastSession of this Datasource.

Returns

The lastSession of this Datasource.

Return type

`dict`

property location: `str`

Gets the location (URL) of this Datasource.

Returns

The location (URL) of this Datasource.

Return type

`str`

property name: `str`

Gets the name of this Datasource.

Returns

The name of this Datasource.

Return type

`str`

property resourceCount: `int`

Gets the resourceCount of this Datasource.

Returns

The resourceCount of this Datasource.

Return type

Workgroup

property sessions: `list`

Gets the sessions of this Datasource.

Returns

The sessions of this Datasource.

Return type

Workgroup

to_dict()

Returns the model properties as a dict.

Return type

dict

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.directive module

Isogeo API v1 - Model of Directive entity

See: <http://help.isogeo.com/api/complete/index.html>

class isogeo_pysdk.models.directive.**Directive**(*_id=None, description=None, name=None*)

Bases: `object`

Directives are entities included as subresource of limitations into metadata CGUs.

Example

```
{
  "_id": string (uuid),
  "name": string,
  "description": string
}
```

ATTR_MAP = {}

ATTR_TYPES = {'_id': <class 'str'>, 'description': <class 'str'>, 'name': <class 'str'>}

property description: `str`

Gets the description of this Directive.

Returns

The description of this Directive.

Return type

str

property name: `str`

Gets the name of this Directive.

Returns

The name of this Directive.

Return type

str

to_dict()

Returns the model properties as a dict.

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.event module

Isogeo API v1 - Model of Event entity

See: <http://help.isogeo.com/api/complete/index.html#definition-event>

class isogeo_pysdk.models.event.Event(*_id=None, date=None, description=None, kind=None, parent_resource=None, waitForSync=1*)

Bases: object

Events are entities included as subresource into metadata for data history description.

Example

```
{
  '_id': string (uuid),
  'date': string (datetime),
  'description': string,
  'kind': string
}
```

```
ATTR_CREA = {'date': <class 'str'>, 'description': <class 'str'>, 'kind': <class 'str'>, 'waitForSync': <class 'bool'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'date': <class 'str'>, 'description': <class 'str'>, 'kind': <class 'str'>, 'parent_resource': <class 'str'>}
```

property date: str

Gets the date of this Event.

Returns

The date of this Event.

Return type

str

property description: str

Gets the description of this Event.

Returns

The description of this Event.

Return type

str

property kind: `str`

Gets the kind of this Event.

Returns

The kind of this Event.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

isogeo_pysdk.models.feature_attributes module

Isogeo API v1 - Model of FeatureAttributes entity

See: <http://help.isogeo.com/api/complete/index.html>

```
class isogeo_pysdk.models.feature_attributes.FeatureAttribute(_id=None, alias=None,
comment=None, dataType=None, description=None, isAutoGenerated=None,
isNullable=None, isReadOnly=None, hasElevation=None, hasMeasure=None,
language=None, length=None, name=None, precision=None, propertyType=None, scale=None,
spatialContext=None, parent_resource=None)
```

Bases: `object`

FeatureAttributes are entities included as subresource into metadata.

Parameters

- **_id** (`str`) – UUID, defaults to None
- **alias** (`str`) – alias of the feature attribute, defaults to None
- **comment** (`str`) – comment of the feature attribute, defaults to None
- **dataType** (`str`) – kind of field (varchar, integer32...), defaults to None

- **description** (*str*) – description of the feature attribute, defaults to None
- **language** (*str*) – language of the description, defaults to None
- **length** (*int*) – length of the values accepted in the attribute, defaults to None
- **name** (*str*) – attribute name, defaults to None
- **precision** (*int*) – value precision, defaults to None
- **scale** (*int*) – scale of display, defaults to None

Example

```
{
  "_id": string (uuid),
  "alias": string,
  "comment": string,
  "dataType": string,
  "description": string,
  "language": string,
  "length": int,
  "name": string,
  "precision": int,
  "scale": int,
}
```

```
ATTR_CREA = {'alias': <class 'str'>, 'comment': <class 'str'>, 'dataType': <class
'str'>, 'description': <class 'str'>, 'hasElevation': <class 'bool'>,
'hasMeasure': <class 'bool'>, 'isAutoGenerated': <class 'bool'>, 'isNullable':
<class 'bool'>, 'isReadOnly': <class 'bool'>, 'language': <class 'str'>, 'length':
<class 'int'>, 'name': <class 'str'>, 'precision': <class 'int'>, 'propertyType':
<class 'str'>, 'scale': <class 'int'>, 'spatialContext': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'alias': <class 'str'>, 'comment': <class
'str'>, 'dataType': <class 'str'>, 'description': <class 'str'>, 'hasElevation':
<class 'bool'>, 'hasMeasure': <class 'bool'>, 'isAutoGenerated': <class 'bool'>,
'isNullable': <class 'bool'>, 'isReadOnly': <class 'bool'>, 'language': <class
'str'>, 'length': <class 'int'>, 'name': <class 'str'>, 'parent_resource': <class
'str'>, 'precision': <class 'int'>, 'propertyType': <class 'str'>, 'scale':
<class 'int'>, 'spatialContext': <class 'str'>}
```

property alias: `str`

Gets the alias of this FeatureAttribute.

Returns

The alias of this FeatureAttribute.

Return type

`str`

property comment: `str`

Gets the comment of this FeatureAttribute.

Returns

The comment of this FeatureAttribute.

Return type

str

property dataType: str

Gets the dataType of this FeatureAttribute.

Returns

The dataType of this FeatureAttribute.

Return type

str

property description: str

Gets the description of this FeatureAttribute.

Returns

The description of this FeatureAttribute.

Return type

str

property hasElevation: bool

Gets the hasElevation of this FeatureAttribute.

Returns

The hasElevation of this FeatureAttribute.

Return type

bool

property hasMeasure: bool

Gets the hasMeasure of this FeatureAttribute.

Returns

The hasMeasure of this FeatureAttribute.

Return type

bool

property isAutoGenerated: bool

Gets the isAutoGenerated of this FeatureAttribute.

Returns

The isAutoGenerated of this FeatureAttribute.

Return type

bool

property isNullable: bool

Gets the isNullable of this FeatureAttribute.

Returns

The isNullable of this FeatureAttribute.

Return type

bool

property isReadOnly: bool

Gets the isReadOnly of this FeatureAttribute.

Returns

The isReadOnly of this FeatureAttribute.

Return type

bool

property language: str

Gets the language of this FeatureAttribute.

Returns

The language of this FeatureAttribute.

Return type

str

property length: int

Gets the length of this FeatureAttribute.

Returns

The length of this FeatureAttribute.

Return type

int

property name: str

Gets the name of this FeatureAttribute.

Returns

The name of this FeatureAttribute.

Return type

str

property precision: int

Gets the precision of this FeatureAttribute.

Returns

The precision of this FeatureAttribute.

Return type

int

property propertyType: str

Gets the propertyType of this FeatureAttribute.

Returns

The propertyType of this FeatureAttribute.

Return type

str

property scale: int

Gets the scale of this FeatureAttribute.

Returns

The scale of this FeatureAttribute.

Return type

int

property spatialContext: str

Gets the spatialContext of this FeatureAttribute.

Returns

The spatialContext of this FeatureAttribute.

Return type

str

to_dict()

Returns the model properties as a dict.

Return type

dict

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.format module

Isogeo API v1 - Model of Format entity

See: <http://help.isogeo.com/api/complete/index.html#definition-format>

class isogeo_pysdk.models.format.**Format**(*_id=None, _tag=None, aliases=None, code=None, name=None, type=None, versions=None*)

Bases: `object`

Formats are entities included as subresource into metadata for data history code.

Example

```
{
  "_id": string (uuid),
  "_tag": "format:dgn",
  "aliases": [
    "dgnv7",
    "dgnv8",
    "igds"
  ],
  "code": "dgn",
  "name": "DGN",
  "type": "dataset",
  "versions": [
    "v8",
    "v7",
    null
  ]
}
```

```
ATTR_CREA = {'aliases': <class 'list'>, 'code': <class 'str'>, 'name': <class 'str'>, 'type': <class 'str'>, 'versions': <class 'list'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, '_tag': <class 'str'>, 'aliases': <class  
'list'>, 'code': <class 'str'>, 'name': <class 'str'>, 'type': <class 'str'>,  
'versions': <class 'list'>}
```

property aliases: `list`

Gets the aliases of this Format.

Returns

The aliases of this Format.

Return type

`list`

property code: `str`

Gets the code of this Format.

Returns

The code of this Format.

Return type

`str`

property name: `str`

Gets the name of this Format.

Returns

The name of this Format.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property type: `str`

Gets the type of this Format.

Returns

The type of this Format.

Return type

`str`

property versions: `list`

Gets the versions of this Format.

Returns

The versions of this Format.

Return type

`list`

isogeo_pysdk.models.invitation module

Isogeo API v1 - Model of Invitation entity

See: <http://help.isogeo.com/api/complete/index.html#definition-invitation>

```
class isogeo_pysdk.models.invitation.Invitation(_created=None, _id=None, _modified=None,
                                                email=None, expiresIn=None, group=None,
                                                role=None)
```

Bases: `object`

Invitations are CSW client entry-points.

Example

```
{
  "_id": "6c7c9e0c63a943f79ba1e00766d0082d",
  "_created": "2019-07-25T09:23:37.0975771+00:00",
  "_modified": "2019-07-25T09:23:37.0975771+00:00",
  "role": "admin",
  "email": "prenom.nom@organisation.code",
  "expiresIn": 657364,
  "group": {
    "_id": "string (uuid)",
    "_tag": "owner:string (uuid)",
    "_created": "2019-05-07T15:11:08.5202923+00:00",
    "_modified": "2019-07-25T09:13:29.7858081+00:00",
    "contact": {
      "_id": "string (uuid)",
      "_tag": "contact:group:string (uuid)",
      "_deleted": false,
      "type": "group",
      "group": "Isogeo TEST",
      "available": false
    },
    "canCreateMetadata": true,
    "canCreateLegacyServiceLinks": false,
    "areKeywordsRestricted": false,
    "hasCswClient": false,
    "hasScanFme": false,
    "keywordsCasing": "lowercase"
  }
}
```

```
ATTR_CREA = {'email': <class 'str'>, 'group': <class 'str'>, 'role': <class
'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_created': <class 'str'>, '_id': <class 'str'>, '_modified':  
<class 'str'>, 'email': <class 'str'>, 'expiresIn': <class 'int'>, 'group':  
<class 'isogeo_pysdk.models.workgroup.Workgroup'>, 'role': <class 'str'>}
```

```
property email: str
```

Gets the email of this Invitation.

Returns

The email of this Invitation.

Return type

str

```
property expiresIn: int
```

Gets the expiresIn of this Invitation.

Returns

The expiresIn of this Invitation.

Return type

int

```
property group: Workgroup
```

Gets the group of this Invitation.

Returns

The group of this Invitation.

Return type

Workgroup

```
property role: bool
```

Gets the role of this Invitation.

Returns

The role of this Invitation.

Return type

str

```
to_dict()
```

Returns the model properties as a dict.

Return type

dict

```
to_dict_creation()
```

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

```
to_str()
```

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.keyword module

Isogeo API v1 - Model of Keyword entity

See: <http://help.isogeo.com/api/complete/index.html#definition-keyword>

```
class isogeo_pysdk.models.keyword.Keyword(_abilities=None, _created=None, _id=None,
                                          _modified=None, _tag=None, code=None, count=None,
                                          description=None, thesaurus=None, text=None)
```

Bases: `object`

Keywords are entities used to organize and shares metadata of a workgroup.

Example

```
{
  '_abilities': [
    'keyword:delete',
    'keyword:restrict'
  ],
  '_created': None,
  '_id': 'ac56a9fbe6f348a79ec9899ebce2d6da',
  '_modified': None,
  '_tag': 'keyword:isogeo:tests-unitaires',
  'code': 'tests-unitaires',
  'count': {
    'isogeo': 0
  },
  'description': None,
  'text': 'tests unitaires',
  'thesaurus': {
    '_id': '1616597fbc4348c8b11ef9d59cf594c8',
    'code': 'isogeo'
  }
}
```

```
ATTR_CREA = {'text': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id':
<class 'str'>, '_modified': <class 'str'>, '_tag': <class 'str'>, 'code': <class
'str'>, 'count': <class 'dict'>, 'description': <class 'str'>, 'text': <class
'str'>, 'thesaurus': <class 'isogeo_pysdk.models.thesaurus.Thesaurus'>}
```

property code: `str`

Gets the code of this Keyword.

Returns

The code of this Keyword.

Return type

`str`

property count: `dict`

Gets the count of this Keyword.

Returns

The count of this Keyword.

Return type

`dict`

property description: `str`

Gets the description of this Keyword.

Returns

The description of this Keyword.

Return type

`str`

property text: `bool`

Gets the text of this Keyword.

Returns

The text of this Keyword.

Return type

`bool`

property thesaurus

Gets the thesaurus of this Keyword. # noqa: E501.

Returns

The thesaurus of this Keyword. # noqa: E501

Return type

Thesaurus

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

isogeo_pysdk.models.keyword_search module

Isogeo API v1 - Model of Keyword search entity

See: <http://help.isogeo.com/api/complete/index.html#definition-search>

class isogeo_pysdk.models.keyword_search.**KeywordSearch**(*limit=None, offset=None, results=None, total=None*)

Bases: `object`

Keyword searches are entities used to organize and shares metadata of a workgroup.

```
ATTR_TYPES = {'limit': <class 'int'>, 'offset': <class 'int'>, 'results': <class 'list'>, 'total': <class 'int'>}
```

property limit: `int`

Gets the created of this Keyword search.

Returns

The created of this Keyword search.

Return type

`str`

property offset: `int`

Gets the offset of this Keyword search.

Returns

The offset of this Keyword search.

Return type

`int`

property results: `str`

Gets the tag of this Keyword search.

Returns

The tag of this Keyword search.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property total: `str`

Gets the total of this Keyword search.

Returns

The total of this Keyword search.

Return type

str

isogeo_pysdk.models.license module

Isogeo API v1 - Model of License entity

See: <http://help.isogeo.com/api/complete/index.html#definition-license>

```
class isogeo_pysdk.models.license.License(_abilities=None, _id=None, _tag=None, count=None,
                                           content=None, link=None, name=None, owner=None)
```

Bases: `object`

Licenses are entities included as subresource into metadata.

Example

```
{
  "_id": "string (uuid)",
  "content": "string",
  "count": "integer (int32)",
  "link": "string",
  "name": "string"
}
```

Attributes:

ATTR_TYPES (dict): basic structure of license attributes. {"attribute name": "attribute type"}.

ATTR_CREA (dict): only attributes used to POST requests. {"attribute name": "attribute type"}

```
ATTR_CREA = {'content': 'str', 'link': 'str', 'name': 'str'}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_abilities': <class 'str'>, '_id': <class 'str'>, '_tag': <class 'str'>,
              'content': <class 'str'>, 'count': <class 'int'>, 'link': <class 'str'>,
              'name': <class 'str'>, 'owner': <class 'dict'>}
```

property content: `str`

Gets the content of this License.

Returns

The content of this License.

Return type

str

property count: `int`

Gets the count of this License.

Returns

The count of this License.

Return type

int

property link: str

Gets the link (URL) of this License.

Returns

The link (URL) of this License.

Return type

str

property name: str

Gets the name of this License.

Returns

The name of this License.

Return type

str

property owner

Gets the owner of this License.

Returns

The owner of this License.

Return type

Workgroup

to_dict()

Returns the model properties as a dict.

Return type

dict

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.limitation module

Isogeo API v1 - Model of Limitation entity

See: <http://help.isogeo.com/api/complete/index.html>

```
class isogeo_pysdk.models.limitation.Limitation(_id=None, description=None, directive=None,
restriction=None, type=None,
parent_resource=None)
```

Bases: `object`

Limitations are entities included as subresource into metadata which can contain a Directive.

Example

```
{
  "_id": "string (uuid)",
  "description": "string",
  "directive": "dict",
  "restriction": "string",
  "type": "string"
}
```

```
ATTR_CREA = {'description': 'str', 'directive': <class
'isogeo_pysdk.models.directive.Directive'>, 'restriction': 'str', 'type': 'str'}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'description': <class 'str'>, 'directive':
<class 'int'>, 'parent_resource': <class 'str'>, 'restriction': <class 'str'>,
'type': <class 'str'>}
```

property description: `str`

Gets the description of this Limitation.

Returns

The description of this Limitation.

Return type

`str`

property directive: *Directive*

Gets the directive of this Limitation.

Returns

The directive of this Limitation.

Return type

Directive

property restriction: `str`

Gets the restriction of this Limitation.

Returns

The restriction of this Limitation.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type`str`**property type:** `str`

Gets the type of this Limitation.

Returns

The type of this Limitation.

Return type`str`**isogeo_pysdk.models.link module**

Isogeo API v1 - Model of Link entity

See: <http://help.isogeo.com/api/complete/index.html#definition-link>

```
class isogeo_pysdk.models.link.Link(_id=None, actions=None, fileName=None, kind=None, link=None,
size=None, title=None, type=None, url=None,
parent_resource=None)
```

Bases: `object`

Links are entities included as subresource into metadata for data history title.

Example

```
{
  '_id': string (uuid),
  'actions': list,
  'fileName': string,
  'kind': string,
  'parent_resource': string (uuid),
  'size': int,
  'title': string,
  'type': string,
  'url': string
}
```

```
ATTR_CREA = {'actions': <class 'list'>, 'fileName': <class 'str'>, 'kind': <class
'str'>, 'link': <class 'dict'>, 'parent_resource': <class 'str'>, 'title': <class
'str'>, 'type': <class 'str'>, 'url': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'actions': <class 'list'>, 'fileName': <class
'str'>, 'kind': <class 'str'>, 'link': <class 'dict'>, 'parent_resource': <class
'str'>, 'size': <class 'int'>, 'title': <class 'str'>, 'type': <class 'str'>,
'url': <class 'str'>}
```

property actions: `list`

Gets the actions of this Link.

Returns

The actions of this Link.

Return type`list`

property fileName: `list`

Gets the fileName of this Link.

Returns

The fileName of this Link.

Return type

`list`

property kind: `str`

Gets the kind of this Link.

Returns

The kind of this Link.

Return type

`str`

property link: `dict`

Gets the associated link of this Link.

Returns

The associated link of this Link.

Return type

`dict`

property size: `int`

Gets the size of the hosted data.

Returns

The size of the hosted data.

Return type

`int`

property title: `str`

Gets the title of this Link.

Returns

The title of this Link.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property type: `str`

Gets the type of this Link.

Returns

The type of this Link.

Return type

`str`

property url: `str`

Gets the url of this Link.

Return type

`str`

Returns

The url of this Link.

Rurl

`str`

isogeo_pysdk.models.metadata module

Isogeo API v1 - Model of Metadata (= Resource) entity

See: <http://help.isogeo.com/api/complete/index.html#definition-resource>

```
class isogeo_pysdk.models.metadata.Metadata(_abilities=None, _created=None, _creator=None,
    _id=None, _modified=None, abstract=None,
    collectionContext=None, collectionMethod=None,
    conditions=None, contacts=None,
    coordinateSystem=None, created=None, distance=None,
    editionProfile=None, encoding=None, envelope=None,
    events=None, featureAttributes=None, features=None,
    format=None, formatVersion=None, geoContext=None,
    geometry=None, keywords=None, language=None,
    layers=None, limitations=None, links=None,
    modified=None, name=None, operations=None,
    path=None, precision=None, published=None,
    scale=None, series=None, serviceLayers=None,
    specifications=None, tags=None, thumbnailUrl=None,
    title=None, topologicalConsistency=None, type=None,
    updateFrequency=None, validFrom=None, validTo=None,
    validityComment=None, **kwargs)
```

Bases: `object`

Metadata are the main entities in Isogeo.

Example

```
{
  "_abilities": [
    "string"
  ],
  "_created": "string (date-time)",
  "_creator": {
    "_abilities": [
```

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```

    "string"
  ],
  "_created": "string (date-time)",
  "_id": "string (uuid)",
  "_modified": "string (date-time)",
  "areKeywordsRestricted": "boolean",
  "canCreateMetadata": "boolean",
  "code": "string",
  "contact": {
    "_created": "string (date-time)",
    "_id": "string (uuid)",
    "_modified": "string (date-time)",
    "addressLine1": "string",
    "addressLine2": "string",
    "addressLine3": "string",
    "available": "string",
    "city": "string",
    "count": "integer (int32)",
    "countryCode": "string",
    "email": "string",
    "fax": "string",
    "hash": "string",
    "name": "string",
    "organization": "string",
    "phone": "string",
    "type": "string",
    "zipCode": "string"
  },
  "keywordsCasing": "string",
  "metadataLanguage": "string",
  "themeColor": "string"
},
"_id": "string (uuid)",
"_modified": "string (date-time)",
"abstract": "string",
"bbox": [
  "number (double)"
],
"collectionContext": "string",
"collectionMethod": "string",
"conditions": [
  {
    "_id": "string (uuid)",
    "description": "string",
    "license": {
      "_id": "string (uuid)",
      "content": "string",
      "count": "integer (int32)",
      "link": "string",
      "name": "string"
    }
  }
]
}

```

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```
],
"contacts": [
  {
    "_id": "string (uuid)",
    "contact": {
      "_created": "string (date-time)",
      "_id": "string (uuid)",
      "_modified": "string (date-time)",
      "addressLine1": "string",
      "addressLine2": "string",
      "addressLine3": "string",
      "available": "string",
      "city": "string",
      "count": "integer (int32)",
      "countryCode": "string",
      "email": "string",
      "fax": "string",
      "hash": "string",
      "name": "string",
      "organization": "string",
      "phone": "string",
      "type": "string",
      "zipCode": "string"
    },
    "role": "string"
  }
],
"context": "object",
"coordinate-system": "object",
"created": "string (date-time)",
"distance": "number (double)",
"editionProfile": "string",
"encoding": "string",
"envelope": "object",
"features": "integer (int32)",
"format": "string",
"formatVersion": "string",
"geometry": "string",
"height": "integer (int32)",
"keywords": [
  {}
]
}
```

```
ATTR_CREA = {'abstract': <class 'str'>, 'collectionContext': <class 'str'>,
'collectionMethod': <class 'str'>, 'distance': <class 'float'>, 'editionProfile':
<class 'str'>, 'encoding': <class 'str'>, 'envelope': <class 'dict'>, 'features':
<class 'int'>, 'format': <class 'str'>, 'formatVersion': <class 'str'>,
'geoContext': <class 'str'>, 'geometry': <class 'str'>, 'language': <class
'str'>, 'name': <class 'str'>, 'path': <class 'str'>, 'precision': <class 'str'>,
'scale': <class 'int'>, 'series': <class 'bool'>, 'title': <class 'str'>,
'topologicalConsistency': <class 'str'>, 'type': <class 'str'>, 'updateFrequency':
<class 'str'>, 'validFrom': <class 'str'>, 'validTo': <class 'str'>,
'validityComment': <class 'str'>}
```

```
ATTR_MAP = {'coordinateSystem': 'coordinate-system', 'featureAttributes':
'feature-attributes'}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_creator':
<class 'dict'>, '_id': <class 'str'>, '_modified': <class 'str'>, 'abstract':
<class 'str'>, 'collectionContext': <class 'str'>, 'collectionMethod': <class
'str'>, 'conditions': <class 'list'>, 'contacts': <class 'list'>,
'coordinateSystem': <class 'dict'>, 'created': <class 'str'>, 'distance': <class
'float'>, 'editionProfile': <class 'str'>, 'encoding': <class 'str'>, 'envelope':
<class 'dict'>, 'events': <class 'list'>, 'featureAttributes': <class 'list'>,
'features': <class 'int'>, 'format': <class 'str'>, 'formatVersion': <class
'str'>, 'geoContext': <class 'str'>, 'geometry': <class 'str'>, 'keywords':
<class 'list'>, 'language': <class 'str'>, 'layers': <class 'list'>,
'limitations': <class 'list'>, 'links': <class 'list'>, 'modified': <class
'str'>, 'name': <class 'str'>, 'operations': <class 'list'>, 'path': <class
'str'>, 'precision': <class 'str'>, 'published': <class 'str'>, 'scale': <class
'int'>, 'series': <class 'bool'>, 'serviceLayers': <class 'list'>,
'specifications': <class 'list'>, 'tags': <class 'list'>, 'thumbnailUrl': <class
'str'>, 'title': <class 'str'>, 'topologicalConsistency': <class 'str'>, 'type':
<class 'str'>, 'updateFrequency': <class 'str'>, 'validFrom': <class 'str'>,
'validTo': <class 'str'>, 'validityComment': <class 'str'>}
```

property abstract: `str`

Gets the abstract.

Returns

The abstract of this Metadata.

Return type

`str`

`admin_url(url_base='https://app.isogeo.com')`

Returns the administration URL (<https://app.isogeo.com>) for this metadata.

Parameters

`url_base` (`str`) – base URL of admin site. Defaults to: <https://app.isogeo.com>

Return type

`str`

classmethod `clean_attributes(raw_object)`

Renames attributes which are incompatible with Python (hyphens...). See related issue: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/82>.

Parameters

`raw_object` (`dict`) – metadata dictionary returned by a `request.json()`

Returns

the metadata with correct attributes

Return type

Metadata

property collectionContext: str

Gets the collectionContext of this Metadata.

Returns

The collectionContext of this Metadata.

Return type

str

property collectionMethod: str

Gets the collection method of this Metadata.

Returns

The collection method of this Metadata.

Return type

str

property conditions: list

Gets the conditions of this Metadata.

Returns

The conditions of this Metadata.

Return type

list

property contacts: list

Gets the contacts of this Metadata.

Returns

The contacts of this Metadata.

Return type

list

property coordinateSystem: *CoordinateSystem*

Gets the coordinateSystem of this Metadata.

Returns

The coordinateSystem of this Metadata.

Return type

CoordinateSystem

property created: str

Gets the creation date of the data described by the Metadata. It's the equivalent of the *created* original attribute (renamed to avoid conflicts with the `_created` one).

Date format is: `%Y-%m-%dT%H:%M:%S+00:00`.

Returns

The creation of this Metadata.

Return type

str

property distance: `str`

Gets the distance of this Metadata.

Returns

The distance of this Metadata.

Return type

`str`

property editionProfile: `str`

Gets the editionProfile of this Metadata.

Returns

The editionProfile of this Metadata.

Return type

`str`

property encoding: `str`

Gets the encoding of this Metadata.

Returns

The encoding of this Metadata.

Return type

`str`

property envelope: `str`

Gets the envelope of this Metadata.

Returns

The envelope of this Metadata.

Return type

`str`

property events: `list`

Gets the events of this Metadata.

Returns

The events of this Metadata.

Return type

`list`

property featureAttributes: `list`

Gets the featureAttributes of this Metadata.

Returns

The featureAttributes of this Metadata.

Return type

`list`

property features: `int`

Gets the features of this Metadata.

Returns

The features of this Metadata.

Return type

`int`

property format: str

Gets the format of this Metadata.

Returns

The format of this Metadata.

Return type

str

property formatVersion: str

Gets the formatVersion of this Metadata.

Returns

The formatVersion of this Metadata.

Return type

str

property geoContext: str

Gets the geoContext of this Metadata.

Returns

The geoContext of this Metadata.

Return type

str

property geometry: str

Gets the geometry of this Metadata.

Returns

The geometry of this Metadata.

Return type

str

property groupId: str

Shortcut to get the UUID of the workgroup which owns the Metadata.

Return type

str

property groupName: str

Shortcut to get the name of the workgroup which owns the Metadata.

Return type

str

property keywords: str

Gets the keywords of this Metadata.

Returns

The keywords of this Metadata.

Return type

str

property language: str

Gets the language of this Metadata.

Returns

The language of this Metadata.

Return type

str

property layers: list

Gets the layers of this Metadata.

Returns

The layers of this Metadata.

Return type

list

property limitations: str

Gets the limitations of this Metadata.

Returns

The limitations of this Metadata.

Return type

str

property links: str

Gets the links of this Metadata.

Returns

The links of this Metadata.

Return type

str

property modified: str

Gets the last modification date of the data described by this Metadata.

It's the equivalent of the *created* original attribute (renamed to avoid conflicts with the `_created`` one).

Returns

The modification of this Metadata.

Return type

str

property name: str

Gets the name of this Metadata.

Returns

The name of this Metadata.

Return type

str

property operations: list

Gets the operations of this Metadata.

Returns

The operations of this Metadata.

Return type

list

property path: str

Gets the path of this Metadata.

Returns

The path of this Metadata.

Return type

str

property precision: str

Gets the precision of this Metadata.

Returns

The precision of this Metadata.

Return type

str

property published: str

Gets the published of this Metadata.

Returns

The published of this Metadata.

Return type

str

property scale: str

Gets the scale of this Metadata.

Returns

The scale of this Metadata.

Return type

str

property series: str

Gets the series of this Metadata.

Returns

The series of this Metadata.

Return type

str

property serviceLayers: list

Gets the serviceLayers of this Metadata.

Returns

The serviceLayers of this Metadata.

Return type

list

signature(*included_attributes*=(*'coordinateSystem', 'envelope', 'features', 'featureAttributes', 'format', 'geometry', 'groupId', 'name', 'path', 'series', 'title', 'type'*))

Calculate a hash cumulating certain attributes values. Useful to Scan or comparison operations.

Parameters

included_attributes (*tuple*) – object attributes to include in hash. Default: {("coordinateSystem", "envelope", "features", "featureAttributes", "format", "geometry", "groupId", "name", "path", "series", "title")}

Return type

str

property specifications: `str`

Gets the specifications of this Metadata.

Returns

The specifications of this Metadata.

Return type

`str`

property tags: `str`

Gets the tags of this Metadata.

Returns

The tags of this Metadata.

Return type

`str`

property thumbnailUrl: `str`

Gets the thumbnailUrl of this Metadata.

Returns

The thumbnailUrl of this Metadata.

Return type

`str`

property title: `str`

Gets the title of this Metadata.

Returns

The title of this Metadata.

Return type

`str`

title_or_name(*slugged=False*)

Gets the title of this Metadata or the name if there is no title. It can return a slugified value.

Parameters

slugged (*bool*) – slugify title. Defaults to *False*.

Returns

the title or the name of this Metadata.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

str

property topologicalConsistency: str

Gets the topologicalConsistency of this Metadata.

Returns

The topologicalConsistency of this Metadata.

Return type

str

property type: str

Gets the type of this Metadata.

Returns

The type of this Metadata.

Return type

str

property typeFilter: str

Shortcut to get the type as expected in search filter.

Return type

str

property updateFrequency: str

Gets the updateFrequency of this Metadata.

Returns

The updateFrequency of this Metadata.

Return type

str

property validFrom: str

Gets the validFrom of this Metadata.

Returns

The validFrom of this Metadata.

Return type

str

property validTo: str

Gets the validTo of this Metadata.

Returns

The validTo of this Metadata.

Return type

str

property validityComment: str

Gets the validityComment of this Metadata.

Returns

The validityComment of this Metadata.

Return type

str

isogeo_pysdk.models.metadata_search module

Isogeo API v1 - Model of Metadata search entity

See: <http://help.isogeo.com/api/complete/index.html#definition-search>

class isogeo_pysdk.models.metadata_search.**MetadataSearch**(*envelope=None, limit=None, offset=None, query=None, results=None, tags=None, total=None*)

Bases: `object`

Metadata searches are entities used to organize and shares metadata of a workgroup.

```
ATTR_TYPES = {'envelope': <class 'object'>, 'limit': <class 'int'>, 'offset':  
<class 'int'>, 'query': <class 'dict'>, 'results': <class 'list'>, 'tags': <class  
'dict'>, 'total': <class 'int'>}
```

property envelope: `dict`

Gets the abilities of this Metadata search.

Returns

The abilities of this Metadata search.

Return type

`dict`

property limit: `int`

Gets the created of this Metadata search.

Returns

The created of this Metadata search.

Return type

`str`

property offset: `int`

Gets the offset of this Metadata search.

Returns

The offset of this Metadata search.

Return type

`int`

property query: `dict`

Gets the modified of this Metadata search.

Returns

The modified of this Metadata search.

Return type

`dict`

property results: `list`

Gets the tag of this Metadata search.

Returns

The tag of this Metadata search.

Return type

list

property tags: dict

Gets the tags of this Metadata search.

Returns

The tags of this Metadata search.

Return type

dict

to_dict()

Returns the model properties as a dict.

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

property total: int

Gets the total of this Metadata search.

Returns

The total of this Metadata search.

Return type

int

isogeo_pysdk.models.service_layer module

Isogeo API v1 - Model of ServiceLayer entity

See: <http://help.isogeo.com/api/complete/index.html#definition-serviceLayer>

```
class isogeo_pysdk.models.service_layer.ServiceLayer(_id=None, dataset=None, datasets=None,
id=None, name=None, mimeTypes=None,
titles=None, title=None,
parent_resource=None)
```

Bases: `object`

ServiceLayers are entities defining rules of data creation.

Example

```
{
  "_id": "string (uuid)",
  "id": "string",
  "mimeTypes": [
    "string"
  ],
  "titles": [
```

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```
{
    {
        "lang": "string",
        "value": "string"
    }
],
"title": "string"
}
```

```
ATTR_CREA = {'name': <class 'str'>, 'title': <class 'str'>, 'titles': <class 'list'>}
```

```
ATTR_MAP = {'name': 'id'}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'dataset': <class 'dict'>, 'datasets': <class 'list'>, 'mimeTypes': <class 'str'>, 'name': <class 'str'>, 'title': <class 'str'>, 'titles': <class 'list'>}
```

property dataset: `dict`

Gets the dataset used for Isogeo filters of this ServiceLayer.

Returns

The dataset of this ServiceLayer.

Return type

`dict`

property datasets: `list`

Gets the datasets used for Isogeo filters of this ServiceLayer.

Returns

The datasets of this ServiceLayer.

Return type

`list`

property mimeTypes: `str`

Gets the mimeTypes of this ServiceLayer.

Returns

The mimeTypes of this ServiceLayer.

Return type

`str`

property name: `str`

Gets the name used for Isogeo filters of this ServiceLayer.

Returns

The name of this ServiceLayer.

Return type

`str`

property title: `str`

Gets the title of this ServiceLayer.

Returns

The title of this ServiceLayer.

Return type

str

property titles: list

Gets the titles of this ServiceLayer.

Returns

The titles of this ServiceLayer.

Return type

list

to_dict()

Returns the model properties as a dict.

Return type

dict

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

to_str()

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.service_operation module

Isogeo API v1 - Model of ServiceOperation entity

See: <http://help.isogeo.com/api/complete/index.html#definition-serviceOperation>

```
class isogeo_pysdk.models.service_operation.ServiceOperation(_id=None, mimeTypesIn=None, mimeTypesOut=None, name=None, url=None, verb=None, parent_resource=None)
```

Bases: object

ServiceOperations are entities defining rules of data creation.

Example

```
{
  "_id": "string (uuid)",
  "mimeTypesIn": [
    "string"
  ],
  "mimeTypesOut": [
    "string"
  ],
  "name": "string",
  "url": "string",
  "verb": "string"
}
```

```
ATTR_CREA = {'name': <class 'str'>, 'verb': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'mimeTypesIn': <class 'list'>, 'mimeTypesOut':  
<class 'list'>, 'name': <class 'str'>, 'url': <class 'str'>, 'verb': <class  
'str'>}
```

property mimeTypesIn: `dict`

Gets the mimeTypesIn used for Isogeo filters of this ServiceOperation.

Returns

The mimeTypesIn of this ServiceOperation.

Return type

`dict`

property mimeTypesOut: `str`

Gets the mimeTypesOut of this ServiceOperation.

Returns

The mimeTypesOut of this ServiceOperation.

Return type

`str`

property name: `str`

Gets the name used for Isogeo filters of this ServiceOperation.

Returns

The name of this ServiceOperation.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property url: `list`

Gets the url of this ServiceOperation.

Returns

The url of this ServiceOperation.

Return type

`list`

property verb: `list`

Gets the verb of this ServiceOperation.

Returns

The verb of this ServiceOperation.

Return type

`list`

isogeo_pysdk.models.share module

Isogeo API v1 - Model of Share entity

See: <http://help.isogeo.com/api/complete/index.html#definition-share>

```
class isogeo_pysdk.models.share.Share(_created=None, _creator=None, _id=None, _modified=None,
    applications=None, catalogs=None, groups=None, name=None,
    rights=None, type=None, urlToken=None)
```

Bases: `object`

Shares are entities used to publish catalog(s) of metadata to applications.

Example

```
{
  "_created": "string (date-time)",
  "_creator": {
    "_abilities": [
      "string"
    ],
    "_created": "string (date-time)",
    "_id": "string (uuid)",
    "_modified": "string (date-time)",
    "areKeywordsRestricted": "boolean",
    "canCreateMetadata": "boolean",
    "catalogs": "string",
    "contact": {
      "_created": "string (date-time)",
      "_id": "string (uuid)",
      "_modified": "string (date-time)",
      "addressLine1": "string",
      "addressLine2": "string",
      "addressLine3": "string",
      "available": "string",
      "city": "string",
      "groups": "integer (int32)",
      "groupsryCode": "string",
      "email": "string",
      "fax": "string",
      "hash": "string",
      "name": "string",
      "organization": "string",
      "phone": "string",
      "type": "string",
      "zipCode": "string"
    }
  }
}
```

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```

    },
    "keywordsCasing": "string",
    "metadataLanguage": "string",
    "themeColor": "string"
  },
  "_id": "string (uuid)",
  "_modified": "string (date-time)",
  "applications": [
    {
      "_created": "string (date-time)",
      "_id": "string (uuid)",
      "_modified": "string (date-time)",
      "canHaveManyGroups": "boolean",
      "client_id": "string",
      "client_secret": "string",
      "groups": [
        {
          "_abilities": [
            "string"
          ],
          "_created": "string (date-time)",
          "_id": "string (uuid)",
          "_modified": "string (date-time)",
          "areKeywordsRestricted": "boolean",
          "canCreateMetadata": "boolean",
          "catalogs": "string",
          "contact": {
            "_created": "string (date-time)",
            "_id": "string (uuid)",
            "_modified": "string (date-time)",
            "addressLine1": "string",
            "addressLine2": "string",
            "addressLine3": "string",
            "available": "string",
            "city": "string",
            "groups": "integer (int32)",
            "groupsryCode": "string",
            "email": "string",
            "fax": "string",
            "hash": "string",
            "name": "string",
            "organization": "string",
            "phone": "string",
            "type": "string",
            "zipCode": "string"
          },
          "keywordsCasing": "string",
          "metadataLanguage": "string",
          "themeColor": "string"
        }
      ],
      "kind": "string",

```

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```

        "name": "string",
        "redirect_uris": [
            "string"
        ],
        "scopes": [
            "string"
        ],
        "staff": "boolean",
        "url": "string"
    }
],
"catalogs": [
    {
        "$scan": "boolean",
        "_abilities": [
            "string"
        ],
        "_created": "string (date-time)",
        "_id": "string (uuid)",
        "_modified": "string (date-time)"
    }
]
}

```

```
ATTR_CREA = {'name': <class 'str'>, 'rights': <class 'list'>, 'type': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_created': <class 'str'>, '_creator': <class 'isogeo_pysdk.models.workgroup.Workgroup'>, '_id': <class 'str'>, '_modified': <class 'str'>, 'applications': <class 'list'>, 'catalogs': <class 'list'>, 'groups': <class 'list'>, 'name': <class 'str'>, 'rights': <class 'list'>, 'type': <class 'str'>, 'urlToken': <class 'str'>}
```

```
admin_url(url_base='https://app.isogeo.com')
```

Returns the administration URL (<https://app.isogeo.com>) for this share.

Parameters

url_base (*str*) – base URL of admin site. Defaults to: <https://app.isogeo.com>

Return type

str

property applications: *list*

Gets the applications of this Share.

Returns

The applications of this Share.

Return type

str

property catalogs: *list*

Gets the catalogs of this Share.

Returns

The catalogs of this Share.

Return type

`str`

property groups: `list`

Gets the groups of this Share.

Returns

The groups of this Share.

Return type

`list`

property name: `str`

Gets the name of this Share.

Returns

The name of this Share.

Return type

`str`

opencatalog_url(*url_base*='https://open.isogeo.com')

Returns the OpenCatalog URL for this share or None if OpenCatalog is not enabled.

Parameters

url_base (*str*) – base URL of OpenCatalog. Defaults to: <https://open.isogeo.com>

Return type

`str`

Returns

- False if the share type is not 'application'
- None if OpenCatalog is not enabled in the share
- URL of the OpenCatalog when everything is fine

property rights: `list`

Gets the rights of this Share.

Returns

The rights of this Share.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

property type: str

Gets the type of this Share.

Returns

The type of this Share.

Return type

`str`

property urlToken: str

Gets the urlToken of this Share.

Returns

The urlToken of this Share.

Return type

`str`

isogeo_pysdk.models.specification module

Isogeo API v1 - Model of Specification entity

See: <http://help.isogeo.com/api/complete/index.html#definition-specification>

```
class isogeo_pysdk.models.specification.Specification(_abilities=None, _id=None, _tag=None,
count=None, link=None, name=None,
owner=None, published=None)
```

Bases: `object`

Specifications are entities defining rules of data creation.

Example

```
{
  '_abilities': [],
  '_id': 'string (uuid)',
  '_tag': 'specification:isogeo:string (uuid)',
  'count': int,
  'link': string,
  'name': string,
  'published': '2016-06-30T00:00:00'
}
```

```
ATTR_CREA = {'link': <class 'str'>, 'name': <class 'str'>, 'published': <class
'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_abilities': <class 'str'>, '_id': <class 'str'>, '_tag': <class
'str'>, 'count': <class 'int'>, 'link': <class 'str'>, 'name': <class 'str'>,
'owner': <class 'dict'>, 'published': <class 'str'>}
```

property count: `int`

Gets the id of this Specification.

Returns

The id of this Specification.

Return type

`str`

property isLocked: `bool`

Shortcut to know if the Specification is owned by Isogeo or a workgroup.

Return type

`bool`

Returns

- None if tag is None too
- True if the specification is owned by Isogeo = locked
- False if the specification is owned by a workgroup = not locked

property link: `str`

Gets the link (URL) of this Specification.

Returns

The link (URL) of this Specification.

Return type

`str`

property name: `str`

Gets the id of this Specification.

Returns

The id of this Specification.

Return type

`str`

property owner

Gets the owner of this Specification.

Returns

The owner of this Specification.

Return type

Workgroup

property published: `str`

Gets the zip (postal) code of this Specification.

Returns

The zip (postal) code of this Specification.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type`dict`**to_dict_creation()**

Returns the model properties as a dict structured for creation purpose (POST)

Return type`dict`**to_str()**

Returns the string representation of the model.

Return type`str`**isogeo_pysdk.models.thesaurus module**

Isogeo API v1 - Model of Thesaurus entity

See: <http://help.isogeo.com/api/complete/index.html#definition-thesaurus>**class** `isogeo_pysdk.models.thesaurus.Thesaurus`(*_abilities=None, _id=None, code=None, name=None*)Bases: `object`

Thesaurus are entities which can be used in shares.

Example

```
{
  '_abilities': [],
  '_id': '926f969ee2bb470a84066625f68b96bb',
  'code': 'iso19115-topic',
  'name': 'MD_TopicCategoryCode'
}
```

`ATTR_CREA = {'name': <class 'str'>}``ATTR_MAP = {}``ATTR_TYPES = {'_abilities': <class 'list'>, '_id': <class 'str'>, 'code': <class 'str'>, 'name': <class 'str'>}`**property** `code`: `str`

Gets the code of this Thesaurus.

Returns

The code of this Thesaurus.

Return type`str`**property** `name`: `str`

Gets the name of this Thesaurus.

Returns

The name of this Thesaurus.

Return type`str`

`to_dict()`

Returns the model properties as a dict.

Return type

dict

`to_dict_creation()`

Returns the model properties as a dict structured for creation purpose (POST)

Return type

dict

`to_str()`

Returns the string representation of the model.

Return type

str

isogeo_pysdk.models.user module

Isogeo API v1 - Model of User entity

See: <http://help.isogeo.com/api/complete/index.html#definition-user>

class `isogeo_pysdk.models.user.User`(*_abilities=None, _created=None, _id=None, _modified=None, contact=None, language=None, mailchimp=None, memberships=None, staff=None, timezone=None*)

Bases: `object`

Users in Isogeo platform.

Example

```
{
  "_abilities": [
    "string"
  ],
  "_created": "string (date-time)",
  "_id": "string (uuid)",
  "_modified": "string (date-time)",
  "contact": {
    "_created": "string (date-time)",
    "_id": "string (uuid)",
    "_modified": "string (date-time)",
    "addressLine1": "string",
    "addressLine2": "string",
    "addressLine3": "string",
    "available": "string",
    "city": "string",
    "count": "integer (int32)",
    "countryCode": "string",
    "email": "string",
    "fax": "string",
    "hash": "string",
    "name": "string",
    "organization": "string",
```

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```

        "phone": "string",
        "type": "string",
        "zipCode": "string"
    },
    "language": "string",
    "staff": "boolean",
    "timezone": "string"
}

```

```

ATTR_CREA = {'contact': <class 'isogeo_pysdk.models.contact.Contact'>, 'language':
<class 'str'>, 'mailchimp': <class 'str'>, 'staff': <class 'bool'>, 'timezone':
<class 'str'>}

```

```
ATTR_MAP = {}
```

```

ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id':
<class 'str'>, '_modified': <class 'str'>, 'contact': <class
'isogeo_pysdk.models.contact.Contact'>, 'language': <class 'str'>, 'mailchimp':
<class 'dict'>, 'staff': <class 'bool'>, 'timezone': <class 'str'>}

```

property contact: *Contact*

Gets the contact of this user.

Returns

The contact of this user.

Return type

Contact

property email: *str*

Shortcut to get the email from the contact data linked to the user.

Return type

str

property language: *str*

Gets the id of this User.

Returns

The id of this User.

Return type

str

property mailchimp: *str*

Gets the id of this User.

Returns

The second address line of this User.

Return type

str

property name: *str*

Shortcut to get the name from the contact data linked to the user.

Return type

str

property staff: `bool`

Staff status for the User.

Returns

the staff status of the User

Return type

`bool`

property timezone: `str`

Gets the timezone of this User.

Returns

The timezone of this User.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

isogeo_pysdk.models.workgroup module

Isogeo API v1 - Model of Workgroup entity

See: <http://help.isogeo.com/api/complete/index.html#definition-workgroup>

```
class isogeo_pysdk.models.workgroup.Workgroup(_abilities=None, _created=None, _id=None,
                                              _modified=None, _tag=None,
                                              areKeywordsRestricted=None,
                                              canCreateLegacyServiceLinks=None,
                                              canCreateMetadata=None, code=None, contact=None,
                                              hasCswClient=None, hasScanFme=None,
                                              keywordsCasing=None, limits=None,
                                              metadataLanguage=None, themeColor=None)
```

Bases: `object`

Workgroups are entities containing metadata.

Example

```

{
  '_abilities': [
    'group:manage',
    'group:update'
  ],
  '_created': '2015-05-21T12:08:16.4295098+00:00',
  '_id': '32f7e95ec4e94ca3bc1afda960003882',
  '_modified': '2018-12-27T10:47:28.7880956+00:00',
  '_tag': 'owner:32f7e95ec4e94ca3bc1afda960003882',
  'areKeywordsRestricted': False,
  'canCreateLegacyServiceLinks': True,
  'canCreateMetadata': True,
  'contact': {
    '_deleted': False,
    '_id': '2a3aefc4f80347f590afe58127f6cb0f',
    '_tag': 'contact:group:2a3aefc4f80347f590afe58127f6cb0f',
    'addressLine1': '26 rue du faubourg Saint-Antoine',
    'addressLine2': '4ème étage',
    'addressLine3': 'bouton porte',
    'available': False,
    'city': 'Paris',
    'countryCode': 'FR',
    'email': 'dev@isogeo.com',
    'fax': '33 (0)9 67 46 50 06',
    'name': 'Isogeo Test',
    'phone': '33 (0)9 67 46 50 06',
    'type': 'group',
    'zipCode': '75012'
  },
  'hasCswClient': True,
  'hasScanFme': True,
  'keywordsCasing': 'lowercase',
  'limits': {
    'canDiffuse': False,
    'canShare': True,
    'Workgroups': {
      'current': 1,
      'max': -1
    },
    'resources': {
      'current': 2,
      'max': 20
    },
    'upload': {
      'current': 0,
      'max': 1073741824
    },
    'users': {
      'current': 1,
      'max': 2
    }
  },
  'metadataLanguage': 'fr',
  'themeColor': '#4499A1'
}

```

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```
}

```

```
ATTR_CREA = {'canCreateLegacyServiceLinks': <class 'bool'>, 'canCreateMetadata':
<class 'bool'>, 'contact': <class 'isogeo_pysdk.models.contact.Contact'>,
'metadataLanguage': <class 'str'>}
```

```
ATTR_MAP = {'contact': ['contact.addressLine1', 'contact.addressLine2',
'contact.addressLine3', 'contact.city', 'contact.countryCode', 'contact.email',
'contact.fax', 'contact.name', 'contact.phone', 'contact.zipCode']}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id':
<class 'str'>, '_modified': <class 'str'>, '_tag': <class 'str'>,
'areKeywordsRestricted': <class 'bool'>, 'canCreateLegacyServiceLinks': <class
'bool'>, 'canCreateMetadata': <class 'bool'>, 'code': <class 'str'>, 'contact':
<class 'isogeo_pysdk.models.contact.Contact'>, 'hasCswClient': <class 'bool'>,
'hasScanFme': <class 'bool'>, 'keywordsCasing': <class 'str'>, 'limits': <class
'dict'>, 'metadataLanguage': <class 'str'>, 'themeColor': <class 'str'>}
```

```
admin_url(url_base='https://app.isogeo.com')
```

Returns the administration URL (<https://app.isogeo.com>) for this group.

Parameters

url_base (*str*) – base URL of admin site. Defaults to: <https://app.isogeo.com>. Can also be <https://manage.isogeo.com>.

Return type

str

```
property areKeywordsRestricted: str
```

Gets the areKeywordsRestricted of this Workgroup.

Returns

The areKeywordsRestricted of this Workgroup.

Return type

str

```
property canCreateLegacyServiceLinks: str
```

Gets the canCreateLegacyServiceLinks of this Workgroup.

Returns

The canCreateLegacyServiceLinks of this Workgroup.

Return type

str

```
property canCreateMetadata: bool
```

Gets the canCreateMetadata of this Workgroup.

Returns

The canCreateMetadata of this Workgroup.

Return type

str

```
property code: str
```

Gets the code of this Workgroup.

Returns

The code of this Workgroup.

Return type

str

property contact: [Contact](#)

Gets the contact of this Workgroup.

Returns

The contact of this Workgroup.

Return type

dict

property hasCswClient: bool

Gets the hasCswClient of this Workgroup.

Returns

The hasCswClient of this Workgroup.

Return type

bool

property hasScanFme: bool

Find out if the group has access to the Scan.

Returns

The hasScanFme value of this Workgroup.

Return type

bool

property keywordsCasing: str

Gets the keywordsCasing of this Workgroup.

Returns

The keywordsCasing of this Workgroup.

Return type

str

property limits: dict

Gets the limits of this Workgroup.

Returns

The limits of this Workgroup.

Return type

dict

property metadataLanguage: str

Gets the metadataLanguage of this Workgroup.

Returns

The metadataLanguage of this Workgroup.

Return type

str

property name: `str`

Shortcut to get the name of the workgroup.

Return type

`str`

property themeColor: `str`

Gets the themeColor of this Workgroup.

Returns

The themeColor of this Workgroup.

Return type

`str`

to_dict()

Returns the model properties as a dict.

Return type

`dict`

to_dict_creation()

Returns the model properties as a dict structured for creation purpose (POST)

Return type

`dict`

to_str()

Returns the string representation of the model.

Return type

`str`

Submodules

isogeo_pysdk.api_hooks module

Complementary set of hooks to use with Isogeo API.

class `isogeo_pysdk.api_hooks.IsogeoHooks`

Bases: `object`

Custom requests event hooks for Isogeo API.

Requests has a hook system that you can use to manipulate portions of the request process, or signal event handling. This module is a set of custom hooks to handle Isogeo API responses.

WIP

autofix_attributes_resource(*resp*, *args, **kwargs)

check_for_error(*resp*, *args, **kwargs)

isogeo_pysdk.checker module

Complementary set of tools to make some checks on requests to Isogeo API.

class isogeo_pysdk.checker.IsogeoChecker

Bases: `object`

Complementary set of tools to make some checks on requests to Isogeo API.

check_api_response(response)

Check API response and raise exceptions if needed.

Parameters

response (`requests.models.Response`) – request response to check

Return type

True or `tuple`

Example

```
>>> checker.check_api_response(<Response [500]>)
(False, 500)
```

check_edit_tab(tab, md_type)

Check if asked tab is part of Isogeo web form and reliable with metadata type.

Parameters

- **tab** (`str`) – tab to check. Must be one of EDIT_TABS attribute
- **md_type** (`str`) – metadata type. Must be one of FILTER_TYPES

check_internet_connection(remote_server='api.isogeo.com', proxies=None)

Test if an internet connection is operational. Src: <https://stackoverflow.com/a/20913928/2556577>.

Parameters

remote_server (`str`) – remote server used to check

Return type

`bool`

classmethod check_is_uuid(uuid_str)

Check if it's an Isogeo UUID handling specific form.

Parameters

uuid_str (`str`) – UUID string to check

check_request_parameters(parameters={})

Check parameters passed to avoid errors and help debug.

Parameters

response (`dict`) – search request parameters

isogeo_pysdk.decorators module

Isogeo Python SDK - Decorators

class `isogeo_pysdk.decorators.ApiDecorators`

Bases: `object`

`api_client = None`

isogeo_pysdk.exceptions module

Isogeo Python SDK - Custom exceptions

See: <https://docs.python.org/fr/3/tutorial/errors.html#user-defined-exceptions>

exception `isogeo_pysdk.exceptions.AlreadyExistError`

Bases: `IsogeoSdkError`

An object with similar properties already exists in Isogeo database.

exception `isogeo_pysdk.exceptions.IsogeoSdkError`

Bases: `Exception`

Base class for exceptions in Isogeo Python SDK package.

isogeo_pysdk.isogeo module

Python SDK wrapping the Isogeo API.

Author: Julien Moura (@geojulien) for @Isogeo

class `isogeo_pysdk.isogeo.Isogeo(auth_mode='group', client_secret=None, platform='qa', proxy=None, timeout=(15, 45), lang='fr', app_name='isogeo-pysdk/3.8.0', max_retries=2, pool_connections=20, pool_maxsize=50, isogeo_urls={}, **kwargs)`

Bases: `OAuth2Session`

Main class in Isogeo API Python wrapper. Manage authentication and requests to the REST API. Inherits from `requests_oauthlib.OAuth2Session`.

Inherited:

Parameters

- **client_id** (*str*) – Client id obtained during registration
- **redirect_uri** (*str*) – Redirect URI you registered as callback
- **auto_refresh_url** (*list*) – Refresh token endpoint URL, must be HTTPS. Supply this if you wish the client to automatically refresh your access tokens.

Package specific:

Parameters

- **client_secret** (*str*) – application OAuth2 secret
- **auth_mode** (*str*) – OAuth2 authentication flow to use. Must be one of 'AUTH_MODES'
- **platform** (*str*) – to request production or quality assurance

- **proxy** (*dict*) – dictionary of proxy settings as described in [Requests](#)
- **lang** (*str*) – API localization (“en” or “fr”). Defaults to ‘fr’.
- **app_name** (*str*) – to custom the application name and user-agent
- **max_retries** (*int*) – custom the maximum number of retries each connection should attempt. See: [Requests](#)
- **pool_connections** (*int*) – custom the number of urllib3 connection pools to cache. See: [Requests](#)
- **pool_maxsize** (*int*) – custom the maximum number of connections to save in the pool. See: [Requests](#)
- **isogeo_urls** (*dict*) – Only needed when platform is “custom”, a dictionary of specific Isogeo URLs.

Returns

authenticated requests Session you can use to send requests to the API.

Return type

`requests_oauthlib.OAuth2Session`

Example

```
# using OAuth2 Password Credentials Grant (Legacy Application)
# (for scripts executed on the server-side with user credentials
# but without requiring user action)
isogeo = Isogeo(
    client_id=enviro.get("ISOGEO_API_USER_LEGACY_CLIENT_ID"),
    client_secret=enviro.get("ISOGEO_API_USER_LEGACY_CLIENT_SECRET"),
    auth_mode="user_legacy",
    auto_refresh_url="{} /oauth/token".format(enviro.get("ISOGEO_ID_URL")),
    platform=enviro.get("ISOGEO_PLATFORM", "qa"),
)

# getting a token
isogeo.connect(
    username=enviro.get("ISOGEO_USER_NAME"),
    password=enviro.get("ISOGEO_USER_PASSWORD"),
)

# using OAuth2 Client Credentials Grant (Backend Application)
# (for scripts executed on the server-side with only application credentials
# but limited to read-only in Isogeo API)
isogeo = Isogeo(
    client_id=enviro.get("ISOGEO_API_DEV_ID"),
    client_secret=enviro.get("ISOGEO_API_DEV_SECRET"),
    auth_mode="group",
    auto_refresh_url="{} /oauth/token".format(enviro.get("ISOGEO_ID_URL")),
    platform=enviro.get("ISOGEO_PLATFORM", "qa"),
)

# getting a token
isogeo.connect()
```

```
AUTH_MODES = {'group': {'client_id': <class 'str'>, 'client_secret': <class 'str'>}, 'guess': {}, 'user_legacy': {'auto_refresh_url': <class 'str'>, 'client_id': <class 'str'>, 'client_secret': <class 'str'>}, 'user_private': {'auto_refresh_url': <class 'str'>, 'client_id': <class 'str'>, 'client_secret': <class 'str'>, 'redirect_uris': <class 'list'>}, 'user_public': {'auto_refresh_url': <class 'str'>, 'client_id': <class 'str'>, 'client_secret': <class 'str'>, 'redirect_uris': <class 'list'>}}
```

```
PLATFORM_VALUES = ['qa', 'prod', 'custom']
```

```
connect(username=None, password=None)
```

Custom the HTTP client and authenticate application with user credentials and fetch token.

Isogeo API uses oAuth 2.0 protocol (<https://tools.ietf.org/html/rfc6749>) see: <http://help.isogeo.com/api/fr/authentication/concepts.html>

Parameters

- **username** (*str*) – user login (email). Not required for group apps (Client Credentials).
- **password** (*str*) – user password. Not required for group apps (Client Credentials).

```
classmethod guess_auth_mode()
```

```
property header: dict
```

Return type

dict

isogeo_pysdk.translator module

Additional strings to be translated from Isogeo API.

```
class isogeo_pysdk.translator.IsogeoTranslator(lang='FR')
```

Bases: *object*

Makes easier the translation of Isogeo API specific strings.

Parameters

lang (*str*) – language code to apply. EN or FR.

```
tr(subdomain, string_to_translate="")
```

Returns translation of string passed.

Parameters

- **subdomain** (*str*) – subpart of strings dictionary. Must be one of `self.translations.keys()` i.e. 'restrictions'
- **string_to_translate** (*str*) – string you want to translate

Return type

str

isogeo_pysdk.type_hints_custom module

Custom type hints used in the SDK

isogeo_pysdk.utils module

Complementary set of utils to use with Isogeo API.

```
class isogeo_pysdk.utils.IsogeoUtils(proxies={})
```

Bases: `object`

Complementary set of utility methods and functions to make it easier using Isogeo API.

```
API_URLS = {'prod': 'v1.api.isogeo.com', 'qa': 'v1.api.qa.isogeo.com'}
```

```
APP_URLS = {'prod': 'https://app.isogeo.com', 'qa':  
'https://qa-isogeo-app.azurewebsites.net'}
```

```
CSW_URLS = {'prod': 'https://services.api.isogeo.com/', 'qa':  
'http://services.api.qa.isogeo.com'}
```

```
MNG_URLS = {'prod': 'https://manage.isogeo.com', 'qa':  
'https://qa-isogeo-manage.azurewebsites.net'}
```

```
OC_URLS = {'prod': 'https://open.isogeo.com', 'qa':  
'https://qa-isogeo-open.azurewebsites.net'}
```

```
WEBAPPS = {'csw_getcap': {'args': ('share_id', 'share_token'), 'url':  
'https://services.api.isogeo.com/ows/s/{share_id}/{share_token}?  
service=CSW&version=2.0.2&request=GetCapabilities'}, 'csw_getrec': {'args':  
('md_uuid_urn', 'share_id', 'share_token'), 'url': 'https://services.api.isogeo.  
com/ows/s/{share_id}/{share_token}?service=CSW&version=2.0.  
2&request=GetRecordById&id={md_uuid_urn}&elementSetName=full&outputSchema=http://  
www.isotc211.org/2005/gmd'}, 'csw_getrecords': {'args': ('share_id',  
'share_token'), 'url': 'https://services.api.isogeo.com/ows/s/{share_id}/  
{share_token}?service=CSW&version=2.0.  
2&request=GetRecords&ResultType=results&ElementSetName=brief&maxRecords=20&OutputFormat=application  
xml&OutputSchema=http://www.opengis.net/cat/csw/2.0.2&namespace=xmlns(csw=http://  
www.opengis.net/cat/csw/2.0.2)&TypeNames=csw:Record&startPosition=1'}, 'oc':  
{'args': ('md_id', 'share_id', 'share_token'), 'url':  
'https://{oc_url}/s/{share_id}/{share_token}/r/{md_id}'}, 'pixup_portal': {'args':  
('md_id', 'portal_url'), 'url': 'http://{portal_url}?muid={md_id}'}}
```

```
classmethod cache_clearer(only_already_hit=1)
```

Clear all LRU cached functions.

Parameters

only_already_hit (*bool*) – option to clear cache only for functions which have been already hit. Defaults to True.

```
classmethod convert_octets(octets)
```

Convert a mount of octets in readable size.

Parameters

octets (*int*) – mount of octets to convert

Example

```
>>> IsogeoUtils.convert_octets(1024)
"1ko"
```

Return type`str`

classmethod `convert_uuid`(*in_uuid*=<class 'str'>, *mode*=0)

Convert a metadata UUID to its URI equivalent. And conversely.

Parameters

- **in_uuid** (*str*) – UUID or URI to convert
- **mode** (*int*) – conversion direction. Options:
 - 0 to HEX
 - 1 to URN (RFC4122)
 - 2 to URN (Isogeo specific style)

classmethod `credentials_loader`(*in_credentials*='client_secrets.json')

Loads API credentials from a file, JSON or INI.

Parameters

in_credentials (*str*) – path to the credentials file. By default, `./client_secrets.json`

Return type`dict`**Returns**

a dictionary with credentials (ID, secret, URLs, platform...)

Example

```
api_credentials = IsogeoUtils.credentials_loader("./_auth/client_secrets.json")
pprint.pprint(api_credentials)
>>> {
    'auth_mode': 'group',
    'client_id': 'python-minimalist-sdk-test-uuid-1a2b3c4d5e6f7g8h9i0j11k12l
↪',
    'client_secret': 'application-secret-
↪1a2b3c4d5e6f7g8h9i0j11k12l13m14n15o16p17Q18rS',
    'kind': None,
    'platform': 'prod',
    'scopes': ['resources:read'],
    'staff': None,
    'type': None,
    'uri_auth': 'https://id.api.isogeo.com/oauth/authorize',
    'uri_base': 'https://api.isogeo.com',
    'uri_redirect': None,
    'uri_token': 'https://id.api.isogeo.com/oauth/token'
}
```

classmethod `encoded_words_to_text`(*in_encoded_words*)

Pull out the character set, encoding, and encoded text from the input encoded words. Next, it decodes the encoded words into a byte string, using either the quopri module or base64 module as determined by the encoding. Finally, it decodes the byte string using the character set and returns the result.

See:

- <https://github.com/isogeo/isogeo-api-py-minsdk/issues/32>
- <https://dmorgan.info/posts/encoded-word-syntax/>

Parameters

in_encoded_words (*str*) – base64 or quori encoded character string.

get_edit_url(*metadata*, *tab*='identification')

Returns the edition URL of a metadata.

Parameters

- **metadata** (*Metadata*) – metadata
- **tab** (*str*) – target tab in the web form. Optionnal. Defaults to ‘identification’.

Return type

str

get_isogeo_version(*component*='api', *prot*='https')

Get Isogeo components versions. Authentication not required.

Parameters

component (*str*) – which platform component. Options:

- api [default]
- db
- app

get_request_base_url(*route*, *prot*='https')

Build the request url for the specified route.

Parameters

- **route** (*str*) – route to format
- **prot** (*str*) – https [DEFAULT] or http

Return type

str

classmethod get_url_base_from_url_token(*url_api_token*='https://id.api.isogeo.com/oauth/token')

Returns the Isogeo API root URL (not included into credentials file) from the token or the auth URL (always included).

Parameters

str (*url_api_token*) – url to Isogeo API ID token generator

Return type

str

Example

```
IsogeoUtils.get_url_base_from_url_token()
>>> "https://api.isogeo.com"
IsogeoUtils.get_url_base_from_url_token(url_api_token="https://id.api.qa.isogeo.
↪com/oauth/token")
>>> "https://api.qa.isogeo.com"
```

`get_view_url(webapp='oc', **kwargs)`

Constructs the view URL of a metadata.

Parameters

- **webapp** (*str*) – web app destination
- **kwargs** (*dict*) – web app specific parameters. For example see WEBAPPS

classmethod `guess_platform_from_url(url='https://api.isogeo.com/')`

Returns the Isogeo platform from a given URL.

Parameters

str (*url*) – URL string to guess from

Return type

str

Returns

“prod” or “qa” or “unknown”

Example

```
IsogeoUtils.guess_platform_from_url("https://api.isogeo.com")
>>> "prod"
IsogeoUtils.guess_platform_from_url("https://api.qa.isogeo.com")
>>> "qa"
IsogeoUtils.guess_platform_from_url("https://api.isogeo.ratp.local")
>>> "unknown"
```

classmethod `hlpr_datetimes(in_date, try_again=1)`

Helper to handle differnts dates formats. See: <https://github.com/isogeo/isogeo-api-py-minsdk/issues/85>

Parameters

- **raw_object** (*dict*) – metadata dictionary returned by a request.json()
- **try_again** (*bool*) – iterations on the method

Returns

a correct datetime object

Return type

datetime

Example

```
# for an event date
IsogeoUtils.hlpr_datetimes("2018-06-04T00:00:00+00:00")
>>> 2018-06-04 00:00:00
# for a metadata creation date with 6 digits as milliseconds
IsogeoUtils.hlpr_datetimes("2019-05-17T13:01:08.559123+00:00")
>>> 2019-05-17 13:01:08.559123
# for a metadata creation date with more than 6 digits as milliseconds
IsogeoUtils.hlpr_datetimes("2019-06-13T16:21:38.1917618+00:00")
>>> 2019-06-13 16:21:38.191761
```

`lang = 'fr'`

classmethod `pages_counter`(*total*, *page_size=100*)

Simple helper to handle pagination. Returns the number of pages for a given number of results.

Parameters

- **total** (*int*) – count of metadata in a search request
- **page_size** (*int*) – count of metadata to display in each page

Return type

int

register_webapp(*webapp_name*, *webapp_args*, *webapp_url*)

Register a new WEBAPP to use with the view URL builder.

Parameters

- **webapp_name** (*str*) – name of the web app to register
- **webapp_args** (*list*) – dynamic arguments to complete the URL. Typically 'md_id'.
- **webapp_url** (*str*) – URL of the web app to register with args tags to replace. Example: 'https://www.ppige-npdc.fr/portail/geocatalogue?uuid={md_id}'

set_base_url(*platform='prod'*, *dict_urls={}*)

Set Isogeo base URLs according to platform.

Parameters

- **platform** (*str*) – platform to use. Options:
 - prod [DEFAULT]
 - qa
 - custom
- **dict_urls** (*dict*) – Only needed when platform is “custom”, a dictionary of specific Isogeo URLs.

classmethod `set_lang_and_locale`(*lang*)

Set requests language and the matching locale.

Parameters

lang (*str*) – language code to set API localization (“en” or “fr”). Defaults to 'fr'.

tags_to_dict(*tags=<class 'dict'>*, *prev_query=<class 'dict'>*, *duplicated='rename'*)

Reverse search tags dictionary to values as keys. Useful to populate filters comboboxes for example.

Parameters

- **tags** (*dict*) – tags dictionary from a search request
- **prev_query** (*dict*) – query parameters returned after a search request. Typically `search.get("query")`.
- **duplicated** (*str*) – what to do about duplicated tags label. Values:
 - ignore - last tag parsed survives
 - merge - add duplicated in value as separated list (sep = '|')
 - rename [default] - if duplicated tag labels are part of different workgroup, so the tag label is renamed with workgroup.

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