
Isogeo Python SDK

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

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

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

1.1 Installation

1.1.1 Get it from pip

```
pip install isogeo-pysdk
```

1.2 Cookbook

1.2.1 Usage

Add shares tags to search response and as attributes

```
from isogeo_pysdk import Isogeo

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

# get the token
isogeo.connect()

# set augment option on True
```

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```

search = isogeo.search(page_size=0, whole_results=0, augment=1)

# through search tags
print(search.get("tags"))

# through attributes
print(isogeo.shares_id)

```

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. The share UUID is required: 2 methods are proposed to retrieve it.

```

from isogeo_pysdk import Isogeo

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

# get the token
isogeo.connect()

## -- METHOD 1 - by shares route -----
# get shares
shares = isogeo.shares()

# get first share id
share_id = shares[0].get("_id")

## -- METHOD 2 - by augmented search -----
# empty search
search = isogeo.search(
    page_size=0,      # get only tags, not results
    whole_results=0, # do not retrieve the whole application_
    ↪scope
    augment=1        # -> this parameter is what we need
)

# get share id from tags splitting dict key
share_id = list(isogeo.shares_id.keys())[0].split(":")[1]

## -- ONCE SHARE ID RETRIEVED -----

# make an augmented share request
share_augmented = isogeo.share(share_id, augment=1)

if "oc_url" in share_augmented:
    print("OpenCatalog is set: {}".format(share_augmented.get("oc_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
)
md = search.get("results")[0]

# check
if md.get("_id") in share_augmented.get("mds_ids"):
    print("Metadata is present in this share")
else:
    print("No present").
```

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 referer 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

# instanciate IsogeoUtils as utils
utils = IsogeoUtils()

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

# 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")
                )
```

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

Keys of returned dict:

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

URL Builder for web applications

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:

```
from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()
url = utils.get_edit_url(md_id="0269803d50c446b09f5060ef7fe3e22b",
                        md_type="vector-dataset",
                        owner_id="32f7e95ec4e94ca3bc1afda960003882",
                        tab="attributes")
```

Get OpenCatalog URL for a metadata

```
from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()
oc_url = utils.get_view_url(webapp="oc",
                            md_id="0269803d50c446b09f5060ef7fe3e22b",
                            share_id="1e07910d365449b59b6596a9b428ecd9",
                            share_token="TokenOhDearToken")
```

Get CSW GetCapabilities for a share

```

from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()
csw_getcap_url = utils.get_view_url(webapp="csw_getcap",
                                   share_id="1e07910d365449b59b6596a9b428ecd9",
                                   share_token="TokenOhDearToken")

```

Get CSW GetRecords for a share

```

from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()

csw_getrecords_url = utils.get_view_url(webapp="csw_getrecords",
                                       share_id="ShareUniqueIdentifier",
                                       share_token="TokenOhDearToken")

```

Get CSW GetRecordByld for a metadata

```

from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()

uuid_md_source = "82e73458e29a4edbaef8bfce9e16fa78b"

csw_getrecord_url = utils.get_view_url(webapp="csw_getrec",
                                       md_uuid_urn=utils.convert_uuid(uuid_md_source,
                                       ↪2),
                                       share_id="ShareUniqueIdentifier",
                                       share_token="TokenOhDearToken")

```

Register a custom webapp and get URL

```

from isogeo_pysdk import IsogeoUtils
utils = IsogeoUtils()
# 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 = utils.get_view_url(md_id="0269803d50c446b09f5060ef7fe3e22b",
                               webapp="PPIGE v3")

```

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

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

# 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.get("results"):
    title = md.get('title')
    xml_stream = isogeo.xml19139(
        md.get("_id")
    )

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

Others examples:

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

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)

# 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"],
)
```

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

Example:

- Batch export hosted data in the package sample.

1.3 Package modules

1.3.1 isogeo_pysdk

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: str = 'prod', proxies: dict =
None, protocol: str = 'https')
```

Bases: `object`

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

api

Get API version.

authentication

Get authentication server (ID) version.

database

Get database version.

scan

Get daemon version.

services

Get services.api version.

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

Get authenticated user account(= profile) informations.

Parameters

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

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
```

update (*account: isogeo_pysdk.models.user.User, caching: bool = 1*) → `isogeo_pysdk.models.user.User`
Update authenticated user account(= profile) informations.

Parameters

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

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: isogeo_pysdk.models.application.Application, workgroup: isogeo_pysdk.models.workgroup.Workgroup, force: bool = 0*) → tuple
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

create (*application: object = {'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}, check_exists: int = 1*) → *isogeo_pysdk.models.application.Application*
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

delete (*application_id: str*)
Delete a application from Isogeo database.

Parameters application_id (*str*) – identifier of the resource to delete

dissociate_group (*application: isogeo_pysdk.models.application.Application, workgroup: isogeo_pysdk.models.workgroup.Workgroup*) → tuple
Removes the association between the specified group and the specified application.

Parameters

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

exists (*application_id: str*) → bool
Check if the specified application exists and is available for the authenticated user.

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

get (*application_id: str, include: tuple = ('abilities', 'groups')*) → *isogeo_pysdk.models.application.Application*
Get details about a specific application.

Parameters

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

listing

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 autenticated user
- **include** (*tuple*) – additionnal subresource to include in the response.

- **caching** (*bool*) – option to cache the response

update (*application: isogeo_pysdk.models.application.Application, caching: bool = 1*) → *isogeo_pysdk.models.application.Application*
Update a application owned by a workgroup.

Parameters

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

workgroups

Get all groups associated with an application.

Parameters **application_id** (*str*) – identifier of the application

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: isogeo_pysdk.models.metadata.Metadata, catalog: isogeo_pysdk.models.catalog.Catalog*) → *requests.models.Response*
Associate a metadata with a catalog.

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

Parameters

- **metadata** (*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]>
```

create (*workgroup_id: str, catalog: isogeo_pysdk.models.catalog.Catalog, check_exists: bool = 1*) → *isogeo_pysdk.models.catalog.Catalog*
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: str, catalog_id: str*)
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: isogeo_pysdk.models.metadata.Metadata, catalog: isogeo_pysdk.models.catalog.Catalog*) → *requests.models.Response*
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

exists (*workgroup_id: str, catalog_id: str*) → *bool*
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

get
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

listing
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

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

Returns shares for the specified catalog.

Parameters `catalog_id (str)` – catalog UUID

Returns list of Shares containing the catalog

Return type `list`

statistics

Returns statistics for the specified catalog.

Parameters `catalog_id (str)` – catalog UUID

statistics_by_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`

update (`catalog: isogeo_pysdk.models.catalog.Catalog`, `caching: bool = 1`) → `isogeo_pysdk.models.catalog.Catalog`
Update a catalog owned by a workgroup.

Parameters

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

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*: *isogeo_pysdk.models.metadata.Metadata*, *condition*: *isogeo_pysdk.models.condition.Condition*) → *isogeo_pysdk.models.condition.Condition*
 Add a new condition (license + specific description) to a metadata.

Parameters

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

delete (*metadata*: *isogeo_pysdk.models.metadata.Metadata*, *condition*: *isogeo_pysdk.models.condition.Condition*) → *requests.models.Response*
 Removes a condition from a metadata.

Parameters

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

get

Get details about a specific condition.

Parameters

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

listing

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*: *isogeo_pysdk.models.metadata.Metadata*, *conformity*: *isogeo_pysdk.models.conformity.Conformity*) → *isogeo_pysdk.models.conformity.Conformity*
 Add a new conformity (specification + specific conformant) to a metadata.

Parameters

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

delete (*metadata*: *isogeo_pysdk.models.metadata.Metadata*, *conformity*: *isogeo_pysdk.models.conformity.Conformity = None*, *specification_id*: *str = None*) → *requests.models.Response*
 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.

listing

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: isogeo_pysdk.models.metadata.Metadata, contact: isogeo_pysdk.models.contact.Contact, role: str = 'pointOfContact'*) → *requests.models.Response*

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

create (*workgroup_id: str, contact: isogeo_pysdk.models.contact.Contact, check_exists: int = 1*) → *isogeo_pysdk.models.contact.Contact*

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: str, contact_id: str*)

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: isogeo_pysdk.models.metadata.Metadata, contact: isogeo_pysdk.models.contact.Contact*) → *requests.models.Response*

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

exists (*contact_id: str*) → *bool*

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

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

get (*contact_id: str*) → *isogeo_pysdk.models.contact.Contact*

Get details about a specific contact.

Parameters **contact_id** (*str*) – contact UUID

listing

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

update (*contact: isogeo_pysdk.models.contact.Contact, caching: bool = 1*) → *isogeo_pysdk.models.contact.Contact*

Update a contact owned by a workgroup.

Parameters

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

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: isogeo_pysdk.models.metadata.Metadata, coordinate_system: isogeo_pysdk.models.coordinates_system.CoordinateSystem*) → *requests.models.Response*

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: isogeo_pysdk.models.coordinates_system.CoordinateSystem, workgroup: isogeo_pysdk.models.workgroup.Workgroup = None*) → *isogeo_pysdk.models.coordinates_system.CoordinateSystem*

Add a coordinate system to the workgroup selection or/and 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: isogeo_pysdk.models.metadata.Metadata*) → *requests.models.Response*

Removes the coordinate-system from a metadata.

Parameters `metadata` (*Metadata*) – metadata object to update

dissociate_workgroup (*coordinate_system_code: str, workgroup_id: str = None*) → `isogeo_pysdk.models.coordinates_system.CoordinateSystem`
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: str, workgroup_id: str = None*) → `isogeo_pysdk.models.coordinates_system.CoordinateSystem`
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. **OPTIONNAL**: 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: str = None, caching: bool = 1*) → `list`
Get coordinate-systems in the whole Isogeo database or into a specific workgroup.

Parameters

- **workgroup_id** (*str*) – identifier of the owner workgroup. **OPTIONNAL**: 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: str, datasource: object = {'_created': None, '_id': None, '_modified': None, '_tag': None, 'enabled': None, 'lastSession': None, 'location': None, 'name': None, 'resourceCount': None, 'sessions': None}, check_exists: int = 2*) → `isogeo_pysdk.models.datasource.Datasource`
 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

datasource (*workgroup_id: str, datasource_id: str*) → `isogeo_pysdk.models.datasource.Datasource`
 Get details about a specific datasource.

Parameters

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

delete (*workgroup_id: str, datasource_id: str*)
 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: str, datasource_id: str*) → `bool`
 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

listing

Get workgroup datasources.

Parameters

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

update (*workgroup_id: str, datasource: isogeo_pysdk.models.datasource.Datasource, caching: bool = 1*) → *isogeo_pysdk.models.datasource.Datasource*
Update a datasource owned by a workgroup.

Parameters

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

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 (*caching: bool = 1*) → *list*
Get directives.

Parameters **caching** (*bool*) – option to cache the response

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: isogeo_pysdk.models.metadata.Metadata, event: isogeo_pysdk.models.event.Event*)
→ *isogeo_pysdk.models.event.Event*
Add a new event to a metadata (= resource).

Parameters

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

delete (*event: isogeo_pysdk.models.event.Event, metadata: isogeo_pysdk.models.metadata.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: str, event_id: str*) → *isogeo_pysdk.models.event.Event*
Get details about a specific event.

Parameters

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

listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → *list*
Get all events of a metadata.

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

update (*event: isogeo_pysdk.models.event.Event, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *isogeo_pysdk.models.event.Event*
Update an event.

Parameters

- **event** (*class*) – Event model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the 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: isogeo_pysdk.models.metadata.Metadata, attribute: iso-geo_pysdk.models.feature_attributes.FeatureAttribute*) → *iso-geo_pysdk.models.feature_attributes.FeatureAttribute*
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*: `isogeo_pysdk.models.feature_attributes.FeatureAttribute`, *metadata*: `isogeo_pysdk.models.metadata.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*: `str`, *attribute_id*: `str`) → `isogeo_pysdk.models.feature_attributes.FeatureAttribute`
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")
)

```

import_from_dataset (*metadata_source*: `isogeo_pysdk.models.metadata.Metadata`, *metadata_dest*: `isogeo_pysdk.models.metadata.Metadata`, *mode*: `str` = 'add')
→ bool
Import feature-attributes from another vector 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

Raises

- **TypeError** – if one metadata is not a vector
- **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)

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

listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → list
 Get all feature-attributes of a metadata.

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

update (*attribute: isogeo_pysdk.models.feature_attributes.FeatureAttribute, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *isogeo_pysdk.models.feature_attributes.FeatureAttribute*
 Update a feature-attribute.

Parameters

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

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: isogeo_pysdk.models.format.Format, check_exists: bool = 1*) → *isogeo_pysdk.models.format.Format*
 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: isogeo_pysdk.models.format.Format*)

Delete a format from Isogeo database.

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

get (*format_code: str*) → *isogeo_pysdk.models.format.Format*

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: str = None, caching: bool = 1*) → list

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*: str = None, *page_size*: int = 10, *offset*: int = 0) → list
 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*: isogeo_pysdk.models.format.Format) → isogeo_pysdk.models.format.Format
 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_updted = isogeo.formats.update(fmt_pgis)

```

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: object = <class 'isogeo_pysdk.models.invitation.Invitation'>*) → `isogeo_pysdk.models.invitation.Invitation`

Accept the invitation to join an Isogeo Workgroup.

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

create (*workgroup_id: str, invitation: object = {'_created': None, '_id': None, '_modified': None, 'email': None, 'expiresIn': None, 'group': None, 'role': None}*) → `isogeo_pysdk.models.invitation.Invitation`

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: object = <class 'isogeo_pysdk.models.invitation.Invitation'>*) → `isogeo_pysdk.models.invitation.Invitation`

Decline the invitation to join an Isogeo Workgroup.

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

delete (*invitation_id: str*)

Delete an invitation from Isogeo database.

Parameters invitation_id (*str*) – identifier of the invitation

get (*invitation_id: str*) → `isogeo_pysdk.models.invitation.Invitation`

Get details about a specific invitation.

Parameters invitation_id (*str*) – invitation UUID

listing (*workgroup_id: str*) → `list`

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

Parameters `workgroup_id` (*str*) – workgroup UUID

update (*invitation: isogeo_pysdk.models.invitation.Invitation*) → iso-geo_pysdk.models.invitation.Invitation
Update a invitation owned by a invitation.

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

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.

create (*keyword: isogeo_pysdk.models.keyword.Keyword*) → `isogeo_pysdk.models.keyword.Keyword`
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

delete (*keyword: isogeo_pysdk.models.keyword.Keyword*)
Delete a keyword from Isogeo database.

Parameters `keyword` (*Keyword*) – Keyword model object to create

get (*keyword_id: str, include: tuple = ('abilities', 'count', 'thesaurus')*) → iso-geo_pysdk.models.keyword.Keyword
Get details about a specific keyword.

Parameters

- `keyword_id` (*str*) – keyword UUID
- `include` (*tuple*) – additionnal 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)
```

metadata (*metadata_id: str = None, include: tuple = ('abilities', 'count', 'thesaurus')*) → list
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*

tagging (*metadata: isogeo_pysdk.models.metadata.Metadata, keyword: isogeo_pysdk.models.keyword.Keyword, check_exists: bool = 0*) → dict
Associate a keyword to a metadata.

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **keyword** (*Keyword*) – object to associate
- **check_exists** (*bool*) – check if a metadata with the same service base URL and format already exists. Defaults to True.

Example

```
# retrieve a metadata
md = isogeo.metadata.get (METADATA_UUID)
# retrieve a keyword
keyword = isogeo.keyword.get (KEYWORD_UUID)
```

thesaurus (*thesaurus_id: str = '1616597fbc4348c8b11ef9d59cf594c8', query: str = "", offset: int = 0, order_by: str = 'text', order_dir: str = 'desc', page_size: int = 20, specific_md: list = [], specific_tag: list = [], include: tuple = ('_abilities', 'count'), caching: bool = 1*) → *isogeo_pysdk.models.keyword_search.KeywordSearch*
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: 20.
- **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'

untagging (*metadata: isogeo_pysdk.models.metadata.Metadata, keyword: isogeo_pysdk.models.keyword.Keyword*) → dict
 Dissociate a keyword from a metadata.

Parameters

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

workgroup (*workgroup_id: str = None, thesaurus_id: str = None, query: str = "", offset: int = 0, order_by: str = 'text', order_dir: str = 'desc', page_size: int = 20, specific_md: list = [], specific_tag: list = [], include: tuple = ('_abilities', 'count', 'thesaurus'), caching: bool = 1*) → isogeo_pysdk.models.keyword_search.KeywordSearch
 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: 20.
- **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'

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: isogeo_pysdk.models.metadata.Metadata, license: isogeo_pysdk.models.license.License, description: str, force: bool = 0*)
→ requests.models.Response

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("f6e0c665905a4feable9c1d6359a225f")
>>> # associate them
>>> isogeo.license.associate_metadata (
    metadata=md,
    license=lic,
    description="Specific description for this license when applied to_
↪this metadata."
)
```

create (*workgroup_id: str, check_exists: int = 1, license: object = {'_abilities': None, '_id': None, '_tag': None, 'content': None, 'count': None, 'link': None, 'name': None, 'owner': None}*)
→ isogeo_pysdk.models.license.License

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

delete (*workgroup_id: str, license_id: str*)

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: str*) → bool

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

Parameters `license_id (str)` – identifier of the license to verify

get (`license_id: str`) → `isogeo_pysdk.models.license.License`
 Get details about a specific license.

Parameters `license_id (str)` – license UUID

listing (`workgroup_id: str = None, include: tuple = ('_abilities', 'count'), caching: bool = 1`) → list
 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

update (`license: isogeo_pysdk.models.license.License, caching: bool = 1`) → `isogeo_pysdk.models.license.License`
 Update a license owned by a workgroup.

Parameters

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

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: isogeo_pysdk.models.metadata.Metadata, limitation: isogeo_pysdk.models.limitation.Limitation`) → `isogeo_pysdk.models.limitation.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.",
)
```

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```
>>> # add it to the metadata
>>> isogeo.metadata.limitations.create(md, new_limitation)
```

delete (*limitation: isogeo_pysdk.models.limitation.Limitation, metadata: isogeo_pysdk.models.metadata.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: str, limitation_id: str*) → *isogeo_pysdk.models.limitation.Limitation*
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")
)
```

listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → list
Get limitations of a metadata.

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

update (*limitation: isogeo_pysdk.models.limitation.Limitation, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *isogeo_pysdk.models.limitation.Limitation*
Update a limitation.

Parameters

- **limitation** (*Limitation*) – Limitation model object to update
- **metadata** (*Metadata*) – parent metadata (resource) containing the 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 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: isogeo_pysdk.models.metadata.Metadata, link: isogeo_pysdk.models.link.Link*) → *isogeo_pysdk.models.link.Link*
Add a new link to a metadata (= resource).

Parameters

- **metadata** (*Metadata*) – metadata (resource) to edit
- **link** (*Link*) – link object to create

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: isogeo_pysdk.models.link.Link, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *requests.models.Response*
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: isogeo_pysdk.models.link.Link, encode_clean: bool = 1*) → tuple
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

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

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


listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → list
Get links of a metadata.

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

update (*link: isogeo_pysdk.models.link.Link, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *isogeo_pysdk.models.link.Link*
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.

upload_hosted (*metadata: isogeo_pysdk.models.metadata.Metadata, link: isogeo_pysdk.models.link.Link, file_to_upload: str*) → *isogeo_pysdk.models.link.Link*
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(
    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

Returns associated catalogs with a metadata. Just a shortcut.

Parameters `metadata` (`Metadata`) – metadata object

Return type `list`

create (*workgroup_id: str, metadata: isogeo_pysdk.models.metadata.Metadata, return_basic_or_complete: bool = 0*) → `isogeo_pysdk.models.metadata.Metadata`
 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** (*bool*) – 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 = basic (only the `_id`, title and attributes passed for the creation) [DEFAULT]
 - 1 = complete (make an additionnal request)

Return type `Metadata`

Example

```
# create a local metadata
my_metadata = Metadata(
    title="My awesome metadata",      # required
    type="vectorDataset",            # required
    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: str*) → `requests.models.Response`
 Delete a metadata from Isogeo database.

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

download_xml (*metadata: isogeo_pysdk.models.metadata.Metadata*) → `requests.models.Response`
 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: str*) → bool

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

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

get

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

keywords (*metadata: isogeo_pysdk.models.metadata.Metadata, include: tuple = ('_abilities', 'count', 'thesaurus')*) → list

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: isogeo_pysdk.models.metadata.Metadata, _http_method: str = 'PATCH'*) → isogeo_pysdk.models.metadata.Metadata

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_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: isogeo_pysdk.models.metadata_search.MetadataSearch*)

Add shares list to the tags attributes in search.

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

search

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 Isogeo 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",
    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,
```

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```
whole_results=1
)
```

search_metadata_asynchronous (*total_results: int, max_workers: int = 10, **kwargs*) → isogeo_pysdk.models.metadata_search.MetadataSearch

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: str, service_url: str, service_type: str = 'guess', service_format: str = None, service_title: str = None, check_exists: bool = 1, ignore_availability: bool = 0, http_verb: str = 'HEAD'*) → `isogeo_pysdk.models.metadata.Metadata`

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 alerady 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: isogeo_pysdk.models.metadata.Metadata, check_only: bool = 0*) → *isogeo_pysdk.models.metadata.Metadata*
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: isogeo_pysdk.models.metadata.Metadata, layer: iso-geo_pysdk.models.service_layer.ServiceLayer, dataset: iso-geo_pysdk.models.metadata.Metadata*) → requests.models.Response

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
)
```

create (*metadata: isogeo_pysdk.models.metadata.Metadata, layer: iso-geo_pysdk.models.service_layer.ServiceLayer*) → isogeo_pysdk.models.service_layer.ServiceLayer
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

delete (*layer: isogeo_pysdk.models.service_layer.ServiceLayer, metadata: iso-geo_pysdk.models.metadata.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: isogeo_pysdk.models.metadata.Metadata, layer: iso-geo_pysdk.models.service_layer.ServiceLayer, dataset: iso-geo_pysdk.models.metadata.Metadata*) → requests.models.Response
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

layer (*metadata_id: str, layer_id: str*) → *isogeo_pysdk.models.service_layer.ServiceLayer*
 Get details about a specific *service_layer*.

Parameters

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

listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → list
 Get all service layers of a *metadata*.

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

update (*layer: isogeo_pysdk.models.service_layer.ServiceLayer, metadata: isogeo_pysdk.models.metadata.Metadata = None*) → *isogeo_pysdk.models.service_layer.ServiceLayer*
 Update a service layer.

Parameters

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

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: isogeo_pysdk.models.metadata.Metadata, operation: isogeo_pysdk.models.service_operation.ServiceOperation*) → *isogeo_pysdk.models.service_operation.ServiceOperation*
 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

listing (*metadata: isogeo_pysdk.models.metadata.Metadata*) → list
 Get all operations of a *metadata* service.

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

operation (*metadata_id: str, operation_id: str*) → *isogeo_pysdk.models.service_operation.ServiceOperation*
 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

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: isogeo_pysdk.models.share.Share, application: isogeo_pysdk.models.application.Application*) → tuple
Associate a share with an application.

Parameters

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

associate_catalog (*share: isogeo_pysdk.models.share.Share, catalog: isogeo_pysdk.models.catalog.Catalog*) → tuple
Associate a share with a catalog.

Parameters

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

associate_group (*share: isogeo_pysdk.models.share.Share, group: isogeo_pysdk.models.workgroup.Workgroup*) → `requests.models.Response`
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

create (*workgroup_id: str, share: object = {'_created': None, '_creator': (None,), '_id': None, '_modified': None, 'applications': None, 'catalogs': None, 'groups': None, 'name': None, 'rights': None, 'type': None, 'urlToken': None}, check_exists: int = 1*) → `isogeo_pysdk.models.share.Share`
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]

delete (*share_id: str*) → requests.models.Response

Delete a share from Isogeo database.

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

dissociate_application (*share: isogeo_pysdk.models.share.Share, application: isogeo_pysdk.models.application.Application*) → tuple

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

Parameters

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

dissociate_catalog (*share: isogeo_pysdk.models.share.Share, catalog: isogeo_pysdk.models.catalog.Catalog*) → tuple

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

Parameters

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

dissociate_group (*share: isogeo_pysdk.models.share.Share, group: isogeo_pysdk.models.workgroup.Workgroup*) → tuple

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

exists (*share_id: str*) → bool

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

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

get (*share_id: str, include: tuple = ('abilities', 'groups')*) → isogeo_pysdk.models.share.Share

Returns details about a specific share.

Parameters

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

listing

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

refresh_token (*share: isogeo_pysdk.models.share.Share*) → isogeo_pysdk.models.share.Share

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

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

reshare (*share: isogeo_pysdk.models.share.Share, reshare: bool = 1*) → isogeo_pysdk.models.share.Share
 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

update (*share: isogeo_pysdk.models.share.Share, caching: bool = 1*) → isogeo_pysdk.models.share.Share
 Update a share owned by a workgroup.

Parameters

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

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: isogeo_pysdk.models.metadata.Metadata, specification: isogeo_pysdk.models.specification.Specification, conformity: bool = 0*) → requests.models.Response

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
)
```

create (*workgroup_id*: str, *check_exists*: int = 1, *specification*: object = {'abilities': None, '_id': None, '_tag': None, 'count': None, 'link': None, 'name': None, 'owner': None, 'published': None}) → isogeo_pysdk.models.specification.Specification
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

delete (*workgroup_id*: str, *specification_id*: str) → dict
Delete a specification from Isogeo database.

Parameters

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

dissociate_metadata (*metadata*: isogeo_pysdk.models.metadata.Metadata, *specification_id*: str) → requests.models.Response
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

exists (*specification_id*: str) → bool
Check if the specified specification exists and is available for the authenticated user.

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

get (*specification_id*: str) → isogeo_pysdk.models.specification.Specification
Get a specification.

Parameters specification_id (str) – specification UUID

listing

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

update (*specification*: isogeo_pysdk.models.specification.Specification, *caching*: bool = 1) → isogeo_pysdk.models.specification.Specification
Update a specification owned by a workgroup.

Parameters

- **specification** (class) – Specification model object to update

- **キャッシング** (*bool*) – option to cache the response

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 (*キャッシング: bool = 1*) → list
Get all thesauri.

thesaurus (*thesaurus_id: uuid.UUID = '1616597fbc4348c8b11ef9d59cf594c8', include: tuple = ('abilities',)*) → isogeo_pysdk.models.thesaurus.Thesaurus
Get a thesaurus.

Parameters

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

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.

listing () → list
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
```

user (*user_id*: *str*, *include*: *tuple* = *'_abilities'*) → `isogeo_pysdk.models.user.User`
Get details about a specific user.

Parameters

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

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

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*: `isogeo_pysdk.models.workgroup.Workgroup`, *check_exists*: *int* = 1) → `isogeo_pysdk.models.workgroup.Workgroup`
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]

delete (*workgroup_id*: *str*)
Delete a workgroup from Isogeo database.

Parameters **workgroup_id** (*str*) – identifier of the workgroup

exists (*workgroup_id*: *str*) → `bool`
Check if the specified workgroup exists and is available for the authenticated user.

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

get
Get details about a specific workgroup.

Parameters

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

invitations

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

Parameters `workgroup_id (str)` – workgroup UUID

invite (`workgroup_id: str, invitation: isogeo_pysdk.models.invitation.Invitation`) → dict

Invite new user to a workgroup. Just a shortcut.

Parameters

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

limits

Returns limits for the specified workgroup.

Parameters `workgroup_id (str)` – workgroup UUID

listing

Get workgroups.

Parameters

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

memberships

Returns memberships for the specified workgroup.

Parameters `workgroup_id (str)` – workgroup UUID

statistics

Returns statistics for the specified workgroup.

Parameters `workgroup_id (str)` – workgroup UUID

statistics_by_tag

Returns statistics for the specified workgroup. See: <http://help.isogeo.com/api/complete/index.html#operation-groups-gid-s-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`

update (`workgroup: isogeo_pysdk.models.workgroup.Workgroup, caching: bool = 1`) → `isogeo_pysdk.models.workgroup.Workgroup`

Update a workgroup owned by a workgroup.

Parameters

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

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**

Bases: `enum.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.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**

Bases: `enum.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
```

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

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

```
contact = 'contact'
coordinateSystem = 'coordinate-system'
format = 'format'
has_value = <bound method CatalogStatisticsTags.has_value of <enum 'CatalogStatisticsT
inspireTheme = 'keyword:inspire-theme'
keyword = 'keyword'
```

isgeo_pysdk.enums.contact_roles module

Isgeo API v1 - Enums for ResourceContact entity accepted roles

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

```
class isgeo_pysdk.enums.contact_roles.ContactRoles
    Bases: enum.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 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
```

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```
>>> 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**

Bases: `enum.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
    Bases: enum.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
    Bases: enum.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
```

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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
    Bases: enum.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**
Bases: `enum.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**
Bases: `enum.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**

Bases: `enum.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  
    Bases: enum.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**

Bases: `enum.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**

Bases: `enum.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
```

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```

>>> 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'
has_value = <bound method MetadataSubresources.has_value of <enum 'MetadataSubresource
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**

Bases: `enum.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.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'
```

```
has_value = <bound method MetadataTypes.has_value of <enum 'MetadataTypes'>>
```

```
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
```

```
Bases: enum.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
has_value = <bound method SearchGeoRelations.has_value of <enum 'SearchGeoRelations'>>
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**
Bases: `enum.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**
Bases: `enum.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
```

isogeo_pysdk.enums.user_roles module

Isogeo API v1 - Enums for ResourceContact entity accepted roles

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

```
class isogeo_pysdk.enums.user_roles.UserRoles
```

```
Bases: enum.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 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
    Bases: enum.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_
↪ensitive
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'
has_value = <bound method WorkgroupStatisticsTags.has_value of <enum 'WorkgroupStatistic
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: list = None, _created: str = None, _id: str = None, _modified: str = None, canHaveManyGroups: bool = None, client_id: str = None, client_secret: int = None, groups: list = None, kind: str = None, name: str = None, redirect_uris: list = None, scopes: list = None, staff: bool = None, type: str = None, url: str = 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',
        'available': True,
        'city': 'Paris',
        'client_secretaryCode': 'FR',
        'email': 'dev@isogeo.com',
        'fax': '33 (0)9 67 46 50 06',
        'name': 'Isogeo Test',
        'phone': '33 (0)9 67 46 50 06',
```

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```

        '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_u

ATTR_MAP = {}

ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id': <clas

admin_url (*url_base*: *str* = 'https://manage.isogeo.com') → *str*

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*

canHaveManyGroups

Gets the option of this Application.

Returns The option of this Application.

Return type *bool*

client_id

Gets the *client_id* of this Application.

Returns The *client_id* of this Application.

Return type *str*

client_secret

Gets the *client_secret* of this Application.

Returns The *client_secret* of this Application.

Return type *str*

groups

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

Returns The groups of this Application. # noqa: E501

Return type *Workgroup*

kind

Gets the kind of this Application.

Returns The kind of this Application.

Return type `str`

name

Gets the name of this Application.

Returns The name of this Application.

Return type `str`

redirect_uris

Gets the redirect_uris of this Application.

Returns The redirect_uris of this Application.

Return type `list`

scopes

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

Returns The scopes of this Application. # noqa: E501

Return type *Workgroup*

staff

Gets the staff of this Application.

Returns The staff of this Application.

Return type `bool`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

type

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

Returns The type of this Application. # noqa: E501

Return type `str`

url

Gets the url of this Application.

Returns The url of this Application.

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: list = None, _created: str = None, _id: str = None, _modified: str = None, _tag: str = None, code: str = None, count: int = None, name: str = None, owner: isogeo_pysdk.models.workgroup.Workgroup = None, scan: bool = 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,
  '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'>}
classmethod clean_attributes (raw_object: dict)
```

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

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

code

Gets the code of this Catalog.

Returns The code of this Catalog.

Return type `str`

count

Gets the count of this Catalog.

Returns The count of this Catalog.

Return type `str`

name

Gets the name of this Catalog.

Returns The name of this Catalog.

Return type `str`

owner

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

Returns The owner of this Catalog. # noqa: E501

Return type *Workgroup*

scan

Gets the scan of this Catalog.

Returns The scan of this Catalog.

Return type `bool`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: str = None, description: str = None,  
license: dict = None, parent_resource: str  
= 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.Li
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'description': <class 'str'>, 'license': <class
```

description

Gets the description of this Condition.

Returns The description of this Condition.

Return type *str*

license

Gets the license of this Condition.

Returns The license of this Condition.

Return type *str*

parent_resource

Gets the parent_resource of this Condition.

Returns The parent_resource of this Condition.

Return type *UUID*

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: bool = None, specification: dict = None, parent_resource: str = 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.spec
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'conformant': <class 'bool'>, 'parent_resource': <class 'str'>, 'speci
```

conformant

Gets the conformant status.

Returns The conformant status

Return type `bool`

parent_resource

Gets the parent_resource of this Conformity.

Returns The parent_resource of this Conformity.

Return type UUID

specification

Gets the specification of this Conformity.

Returns The specification of this Conformity.

Return type *Specification*

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: list = None, _deleted: bool = None,
    _id: str = None, _tag: str = None, addressLine1: str = None, addressLine2: str =
    None, addressLine3: str = None, available: bool = None, city: str = None, count: int =
    None, countryCode: str = None, email: str = None, fax: str = None, hash: str = None,
    name: str = None, organization: str = None, owner: dict = None, phone: str = None, type:
    str = None, zipCode: str = 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', 'name': 'str', 'phone': 'str', 'type': 'str', 'zipCode': 'str'}
```

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

```
ATTR_TYPES = {'_abilities': <class 'str'>, '_id': <class 'str'>, '_tag': <class 'str'>, '_deleted': <class 'bool'>, '_created': <class 'int'>, '_modified': <class 'int'>, 'available': <class 'bool'>, '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'>}
```

addressLine1

Gets the id of this Contact.

Returns The id of this Contact.

Return type `str`

addressLine2

Gets the id of this Contact.

Returns The second address line of this Contact.

Return type `str`

addressLine3

Gets the third address line of this Contact.

Returns The The third address line of this Contact.

Return type `str`

available

Gets the availability of this Contact.

Returns The availability of this Contact.

Return type `str`

city

Gets the city of this Contact.

Returns The city of this Contact.

Return type `str`

count

Gets the id of this Contact.

Returns The id of this Contact.

Return type `str`

countryCode

Gets the country code of this Contact.

Returns The country code of this Contact.

Return type `str`

email

Gets the email of this Contact.

Returns The email of this Contact.

Return type `str`

fax

Gets the fax of this Contact.

Returns The fax of this Contact.

Return type `str`

hash

Gets the hash of this Contact.

Returns The hash of this Contact.

Return type `str`

name

Gets the name of this Contact.

Returns The name of this Contact.

Return type `str`

organization

Gets the organization of this Contact.

Returns The organization of this Contact.

Return type `str`

owner

Gets the owner of this Specification.

Returns The owner of this Specification.

Return type *Workgroup*

phone

Gets the phone number of this Contact.

Returns The phone number of this Contact.

Return type `str`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

type

Gets the type of this Contact.

Returns The type of this Contact.

Return type `str`

zipCode

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: str = None,  
alias: str = None,  
code: str = None,  
name: str = 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'>,

alias

Gets the custom alias of this CoordinateSystem in a workgroup.

Returns The alias of this CoordinateSystem in a workgroup.

Return type `str`

code

Gets the EPSG code of this CoordinateSystem.

Returns The EPSG code of this CoordinateSystem.

Return type `str`

name

Gets the name of this CoordinateSystem.

Returns The name of this CoordinateSystem.

Return type `str`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

`to_str()` → str
Returns the string representation of the model.

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: list = None, _id: str = None,
                                                _modified: str = None, _tag: str =
                                                None, enabled: bool = None, lastSession: dict = None, location: str =
                                                None, name: str = None, resourceCount: int = None, sessions: list =
                                                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
```

```
enabled
```

Gets the enabled of this Datasource.

Returns The enabled of this Datasource.

Return type str

lastSession

Gets the lastSession of this Datasource.

Returns The lastSession of this Datasource.

Return type *dict*

location

Gets the location (URL) of this Datasource.

Returns The location (URL) of this Datasource.

Return type *str*

name

Gets the name of this Datasource.

Returns The name of this Datasource.

Return type *str*

resourceCount

Gets the resourceCount of this Datasource.

Returns The resourceCount of this Datasource.

Return type *Workgroup*

sessions

Gets the sessions of this Datasource.

Returns The sessions of this Datasource.

Return type *Workgroup*

to_dict () → *dict*

Returns the model properties as a dict.

to_dict_creation () → *dict*

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

to_str () → *str*

Returns the string representation of the model.

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: str = None, description: str = None,  
name: str = 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 's
```

description

Gets the description of this Directive.

Returns The description of this Directive.

Return type `str`

name

Gets the name of this Directive.

Returns The name of this Directive.

Return type `str`

```
to_dict () → dict
```

Returns the model properties as a dict.

```
to_str () → str
```

Returns the string representation of the model.

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: str = None, date: str = None, description: str =
None, kind: str = None, parent_resource: str = None,
waitForSync: bool = 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 's
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'date': <class 'str'>, 'description': <class 's
```

date

Gets the date of this Event.

Returns The date of this Event.

Return type `str`

description

Gets the description of this Event.

Returns The description of this Event.

Return type *str*

kind

Gets the kind of this Event.

Returns The kind of this Event.

Return type *str*

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: str = None, alias: str = None, dataType: str = None, description: str = None, isAutoGenerated: bool = None, isNullable: bool = None, isReadOnly: bool = None, hasElevation: bool = None, hasMeasure: bool = None, language: str = None, length: int = None, name: str = None, precision: int = None, propertyType: str = None, scale: int = None, spatialContext: str = None, parent_resource: str = 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
- **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,
  "dataType": string,
  "description": string,
  "language": string,
  "length": int,
  "name": string,
  "precision": int,
  "scale": int,
}
```

ATTR_CREA = {'alias': <class 'str'>, 'dataType': <class 'str'>, 'description': <cla

ATTR_MAP = {}

ATTR_TYPES = {'_id': <class 'str'>, 'alias': <class 'str'>, 'dataType': <class 'str

alias

Gets the alias of this FeatureAttribute.

Returns The alias of this FeatureAttribute.

Return type *str*

dataType

Gets the dataType of this FeatureAttribute.

Returns The dataType of this FeatureAttribute.

Return type *str*

description

Gets the description of this FeatureAttribute.

Returns The description of this FeatureAttribute.

Return type *str*

hasElevation

Gets the hasElevation of this FeatureAttribute.

Returns The hasElevation of this FeatureAttribute.

Return type *bool*

hasMeasure

Gets the hasMeasure of this FeatureAttribute.

Returns The hasMeasure of this FeatureAttribute.

Return type `bool`

isAutoGenerated

Gets the isAutoGenerated of this FeatureAttribute.

Returns The isAutoGenerated of this FeatureAttribute.

Return type `bool`

isNullable

Gets the isNullable of this FeatureAttribute.

Returns The isNullable of this FeatureAttribute.

Return type `bool`

isReadOnly

Gets the isReadOnly of this FeatureAttribute.

Returns The isReadOnly of this FeatureAttribute.

Return type `bool`

language

Gets the language of this FeatureAttribute.

Returns The language of this FeatureAttribute.

Return type `str`

length

Gets the length of this FeatureAttribute.

Returns The length of this FeatureAttribute.

Return type `int`

name

Gets the name of this FeatureAttribute.

Returns The name of this FeatureAttribute.

Return type `str`

precision

Gets the precision of this FeatureAttribute.

Returns The precision of this FeatureAttribute.

Return type `int`

propertyType

Gets the propertyType of this FeatureAttribute.

Returns The propertyType of this FeatureAttribute.

Return type `str`

scale

Gets the scale of this FeatureAttribute.

Returns The scale of this FeatureAttribute.

Return type `int`

spatialContext

Gets the spatialContext of this FeatureAttribute.

Returns The spatialContext of this FeatureAttribute.

Return type `str`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

isoge_pysdk.models.format module

Isoge API v1 - Model of Format entity

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

```
class isoge_pysdk.models.format.Format (_id: str = None, _tag: str = None, aliases: list = None, code: str = None, name: str = None, type: str = None, versions: list = 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'>
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, '_tag': <class 'str'>, 'aliases': <class 'list'>
```

aliases

Gets the aliases of this Format.

Returns The aliases of this Format.

Return type `list`

code

Gets the code of this Format.

Returns The code of this Format.

Return type `str`

name

Gets the name of this Format.

Returns The name of this Format.

Return type `str`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

type

Gets the type of this Format.

Returns The type of this Format.

Return type `str`

versions

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: str = None, _id: str = None,
                                                _modified: str = None, email: dict =
                                                None, expiresIn: str = None, group: str
                                                = None, role: bool = None)
```

Bases: `object`

Invitations are CSW client entry-points.

Example

```
{
  "_id": "6c7c9e0c63a943f79bale00766d0082d",
  "_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)",
```

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```

    "_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
email
```

Gets the email of this Invitation.

Returns The email of this Invitation.

Return type str

expiresIn

Gets the expiresIn of this Invitation.

Returns The expiresIn of this Invitation.

Return type int

group

Gets the group of this Invitation.

Returns The group of this Invitation.

Return type *Workgroup*

role

Gets the role of this Invitation.

Returns The role of this Invitation.

Return type str

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: list = None, _created: str = None,
                                           _id: str = None, _modified: str = None, _tag:
                                           str = None, code: str = None, count: dict =
                                           None, description: str = None, thesaurus: iso-
                                           geo_pysdk.models.thesaurus.Thesaurus = None,
                                           text: bool = 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 'dict'>}**code**

Gets the code of this Keyword.

Returns The code of this Keyword.**Return type** `str`**count**

Gets the count of this Keyword.

Returns The count of this Keyword.**Return type** `dict`**description**

Gets the description of this Keyword.

Returns The description of this Keyword.

Return type `str`

text

Gets the text of this Keyword.

Returns The text of this Keyword.

Return type `bool`

thesaurus

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

Returns The thesaurus of this Keyword. # noqa: E501

Return type *Thesaurus*

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: int = None, offset: int = None, results: list = None, total: int = 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'>}
```

limit

Gets the created of this Keyword search.

Returns The created of this Keyword search.

Return type `str`

offset

Gets the offset of this Keyword search.

Returns The offset of this Keyword search.

Return type `int`

results

Gets the tag of this Keyword search.

Returns The tag of this Keyword search.

Return type `str`

to_dict () → dict
Returns the model properties as a dict.

to_str () → str
Returns the string representation of the model.

total
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: list = None, _id: str = None, _tag: str = None, count: int = None, content: str = None, link: str = None, name: str = None, owner: dict = 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
Gets the content of this License.
Returns The content of this License.
Return type str

count
Gets the count of this License.
Returns The count of this License.
Return type int

link
Gets the link (URL) of this License.

Returns The link (URL) of this License.

Return type `str`

name

Gets the name of this License.

Returns The name of this License.

Return type `str`

owner

Gets the owner of this License.

Returns The owner of this License.

Return type `Workgroup`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: str = None, description: str = None, directive: int = None, restriction: str = None, type: str = None, parent_resource: str = 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'>
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_id': <class 'str'>, 'description': <class 'str'>, 'directive': <class 'dict'>
```

description

Gets the description of this Limitation.

Returns The description of this Limitation.

Return type `str`

directive

Gets the directive of this Limitation.

Returns The directive of this Limitation.

Return type *Directive*

restriction

Gets the restriction of this Limitation.

Returns The restriction of this Limitation.

Return type *str*

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

type

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: str = None, actions: list = None, kind: str = None,
link: dict = None, size: int = None, title: str = None,
type: str = None, url: str = None, parent_resource: str =
None)
```

Bases: *object*

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

Example

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

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

actions

Gets the actions of this Link.

Returns The actions of this Link.

Return type `list`

kind

Gets the kind of this Link.

Returns The kind of this Link.

Return type `str`

link

Gets the associated link of this Link.

Returns The associated link of this Link.

Return type `dict`

size

Gets the size of the hosted data.

Returns The size of the hosted data.

Return type `int`

title

Gets the title of this Link.

Returns The title of this Link.

Return type `str`

to_dict () → `dict`

Returns the model properties as a dict.

to_dict_creation () → `dict`

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

to_str () → `str`

Returns the string representation of the model.

type

Gets the type of this Link.

Returns The type of this Link.

Return type `str`

url

Gets the url of this Link.

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: list = None, _created: str = None,
      _creator: dict = None, _id: str = None,
      _modified: str = None, abstract: str = None,
      collectionContext: str = None, collection-
      Method: str = None, conditions: list = None,
      contacts: list = None, coordinateSystem: dict
      = None, created: str = None, distance: float
      = None, editionProfile: str = None, encod-
      ing: str = None, envelope: dict = None,
      events: list = None, featureAttributes: list
      = None, features: int = None, format: str
      = None, formatVersion: str = None, geom-
      etry: str = None, keywords: list = None, lan-
      guage: str = None, layers: list = None, limi-
      tations: list = None, links: list = None, mod-
      ified: str = None, name: str = None, oper-
      ations: list = None, path: str = None, pre-
      cision: str = None, published: str = None,
      scale: int = None, series: bool = None, ser-
      viceLayers: list = None, specifications: list
      = None, tags: list = None, title: str = None,
      topologicalConsistency: str = None, type: str
      = None, updateFrequency: str = None, valid-
      From: str = None, validTo: str = None, va-
      lidityComment: str = None)

```

Bases: `object`

Metadata are the main entities in Isogeo.

Example

```

{
  "_abilities": [
    "string"
  ],
  "_created": "string (date-time)",
  "_creator": {
    "_abilities": [
      "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",

```

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```

    "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"
    }
  }
],
"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"
    }
  }
],

```

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```

        "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'>, 'collect
```

```
ATTR_MAP = {'coordinateSystem': 'coordinate-system', 'featureAttributes': 'feature-a
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_creator':
```

abstract

Gets the abstract.

Returns The abstract of this Metadata.

Return type `str`

admin_url (*url_base*: `str` = `'https://app.isogeo.com'`) → `str`

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*: `dict`)

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`

collectionContext

Gets the collectionContext of this Metadata.

Returns The collectionContext of this Metadata.

Return type `str`

collectionMethod

Gets the collection method of this Metadata.

Returns The collection method of this Metadata.

Return type `str`

conditions

Gets the conditions of this Metadata.

Returns The conditions of this Metadata.

Return type `list`

contacts

Gets the contacts of this Metadata.

Returns The contacts of this Metadata.

Return type `list`

coordinateSystem

Gets the coordinateSystem of this Metadata.

Returns The coordinateSystem of this Metadata.

Return type `dict`

created

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`

distance

Gets the distance of this Metadata.

Returns The distance of this Metadata.

Return type `str`

editionProfile

Gets the editionProfile of this Metadata.

Returns The editionProfile of this Metadata.

Return type `str`

encoding

Gets the encoding of this Metadata.

Returns The encoding of this Metadata.

Return type `str`

envelope

Gets the envelope of this Metadata.

Returns The envelope of this Metadata.

Return type `str`

events

Gets the events of this Metadata.

Returns The events of this Metadata.

Return type `list`

featureAttributes

Gets the featureAttributes of this Metadata.

Returns The featureAttributes of this Metadata.

Return type `list`

features

Gets the features of this Metadata.

Returns The features of this Metadata.

Return type `int`

format

Gets the format of this Metadata.

Returns The format of this Metadata.

Return type `str`

formatVersion

Gets the formatVersion of this Metadata.

Returns The formatVersion of this Metadata.

Return type `str`

geometry

Gets the geometry of this Metadata.

Returns The geometry of this Metadata.

Return type `str`

groupId

Shortcut to get the UUID of the workgroup which owns the Metadata.

groupName

Shortcut to get the name of the workgroup which owns the Metadata.

keywords

Gets the keywords of this Metadata.

Returns The keywords of this Metadata.

Return type `str`

language

Gets the language of this Metadata.

Returns The language of this Metadata.

Return type `str`

layers

Gets the layers of this Metadata.

Returns The layers of this Metadata.

Return type `list`

limitations

Gets the limitations of this Metadata.

Returns The limitations of this Metadata.

Return type `str`

links

Gets the links of this Metadata.

Returns The links of this Metadata.

Return type `str`

modified

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`

name

Gets the name of this Metadata.

Returns The name of this Metadata.

Return type `str`

operations

Gets the operations of this Metadata.

Returns The operations of this Metadata.

Return type `list`

path

Gets the path of this Metadata.

Returns The path of this Metadata.

Return type `str`

precision

Gets the precision of this Metadata.

Returns The precision of this Metadata.

Return type `str`

published

Gets the published of this Metadata.

Returns The published of this Metadata.

Return type `str`

scale

Gets the scale of this Metadata.

Returns The scale of this Metadata.

Return type `str`

series

Gets the series of this Metadata.

Returns The series of this Metadata.

Return type `str`

serviceLayers

Gets the serviceLayers of this Metadata.

Returns The serviceLayers of this Metadata.

Return type `list`

specifications

Gets the specifications of this Metadata.

Returns The specifications of this Metadata.

Return type `str`

tags

Gets the tags of this Metadata.

Returns The tags of this Metadata.

Return type `str`

title

Gets the title of this Metadata.

Returns The title of this Metadata.

Return type `str`

title_or_name (*slugged: bool = False*) → `str`

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 () → `dict`

Returns the model properties as a dict.

to_dict_creation () → `dict`

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

to_str () → `str`

Returns the string representation of the model.

topologicalConsistency

Gets the topologicalConsistency of this Metadata.

Returns The topologicalConsistency of this Metadata.

Return type `str`

type

Gets the type of this Metadata.

Returns The type of this Metadata.

Return type `str`

updateFrequency

Gets the updateFrequency of this Metadata.

Returns The updateFrequency of this Metadata.

Return type `str`

validFrom

Gets the validFrom of this Metadata.

Returns The validFrom of this Metadata.

Return type `str`

validTo

Gets the validTo of this Metadata.

Returns The validTo of this Metadata.

Return type str

validityComment

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: dict = None,
limit: int = None, offset:
int = None, query: dict
= None, results: list =
None, tags: dict = None,
total: int = 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
```

envelope

Gets the abilities of this Metadata search.

Returns The abilities of this Metadata search.

Return type dict

limit

Gets the created of this Metadata search.

Returns The created of this Metadata search.

Return type str

offset

Gets the offset of this Metadata search.

Returns The offset of this Metadata search.

Return type int

query

Gets the modified of this Metadata search.

Returns The modified of this Metadata search.

Return type dict

results

Gets the tag of this Metadata search.

Returns The tag of this Metadata search.

Return type *list*

tags

Gets the tags of this Metadata search.

Returns The tags of this Metadata search.

Return type *dict*

to_dict () → *dict*

Returns the model properties as a dict.

to_str () → *str*

Returns the string representation of the model.

total

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: str = None, dataset: dict = None, id: str = None, name: str = None, mimeTypes: str = None, titles: list = None, parent_resource: str = None*)

Bases: `object`

ServiceLayers are entities defining rules of data creation.

Example

```
{
  "_id": "string (uuid)",
  "id": "string",
  "mimeTypes": [
    "string"
  ],
  "titles": [
    {
      "lang": "string",
      "value": "string"
    }
  ]
}
```

ATTR_CREA = {'name': <class 'str'>, 'titles': <class 'list'>}

ATTR_MAP = {'name': 'id'}

ATTR_TYPES = {'_id': <class 'str'>, 'dataset': <class 'dict'>, 'mimeTypes': <class

dataset

Gets the dataset used for Isogeo filters of this ServiceLayer.

Returns The dataset of this ServiceLayer.

Return type `dict`

mimeTypes

Gets the mimeTypes of this ServiceLayer.

Returns The mimeTypes of this ServiceLayer.

Return type `str`

name

Gets the name used for Isogeo filters of this ServiceLayer.

Returns The name of this ServiceLayer.

Return type `str`

titles

Gets the titles of this ServiceLayer.

Returns The titles of this ServiceLayer.

Return type `list`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: str = None,
mimeTypesIn: str = None,
mimeTypesOut: str = None,
name: str = None,
url: str = None,
verb: str = None,
parent_resource: str = None)
```

Bases: `object`

ServiceOperations are entities defining rules of data creation.

Example

```
{
  "_id": "string (uuid)",
  "mimeTypesIn": [
    "string"
  ],
  "mimeTypesOut": [
    "string"
  ]
}
```

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```
    ],  
    "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':
```

mimeTypesIn

Gets the mimeTypesIn used for Isogeo filters of this ServiceOperation.

Returns The mimeTypesIn of this ServiceOperation.

Return type dict

mimeTypesOut

Gets the mimeTypesOut of this ServiceOperation.

Returns The mimeTypesOut of this ServiceOperation.

Return type str

name

Gets the name used for Isogeo filters of this ServiceOperation.

Returns The name of this ServiceOperation.

Return type str

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

url

Gets the url of this ServiceOperation.

Returns The url of this ServiceOperation.

Return type list

verb

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: str = None, _creator: isogeo_pysdk.models.workgroup.Workgroup = None,
    _id: str = None, _modified: str = None, applications: list = None, catalogs: list = None, groups: list = None, name: str = None, rights: list = None, type: str = None, urlToken: str = 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"
    },
    "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",
```

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```
"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",
"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)"
```

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```

    }
  ]
}

```

```
ATTR_CREA = {'name': <class 'str'>, 'rights': <class 'list'>, 'type': <class 'str'>}
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_created': <class 'str'>, '_creator': <class 'isogeo_pysdk.models.wor'>}
```

```
admin_url (url_base: str = 'https://app.isogeo.com') → str
```

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*

applications

Gets the applications of this Share.

Returns The applications of this Share.

Return type *str*

catalogs

Gets the catalogs of this Share.

Returns The catalogs of this Share.

Return type *str*

groups

Gets the groups of this Share.

Returns The groups of this Share.

Return type *list*

name

Gets the name of this Share.

Returns The name of this Share.

Return type *str*

```
opencatalog_url (url_base: str = 'https://open.isogeo.com') → str
```

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>

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

rights

Gets the rights of this Share.

Returns The rights of this Share.

Return type *str*

to_dict() → dict

Returns the model properties as a dict.

to_dict_creation() → dict

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

to_str() → str

Returns the string representation of the model.

type

Gets the type of this Share.

Returns The type of this Share.

Return type str

urlToken

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: list = None, _id: str = None, _tag: str = None, count: int = None, link: str = None, name: str = None, owner: dict = None, published: str = 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

Gets the id of this Specification.

Returns The id of this Specification.

Return type str

isLocked

Shortcut to know if the Specification is owned by Isogeo or a workgroup.

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

link

Gets the link (URL) of this Specification.

Returns The link (URL) of this Specification.

Return type `str`

name

Gets the id of this Specification.

Returns The id of this Specification.

Return type `str`

owner

Gets the owner of this Specification.

Returns The owner of this Specification.

Return type *Workgroup*

published

Gets the zip (postal) code of this Specification.

Returns The zip (postal) code of this Specification.

Return type `str`

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: list = None, _id: str = None,  
code: str = None, name: str = 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 's

code

Gets the code of this Thesaurus.

Returns The code of this Thesaurus.

Return type str

name

Gets the name of this Thesaurus.

Returns The name of this Thesaurus.

Return type str

to_dict () → dict

Returns the model properties as a dict.

to_dict_creation () → dict

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

to_str () → str

Returns the string representation of the model.

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: list = None, _created: str = None, _id:
    str = None, _modified: str = None, contact: iso-
    geo_pysdk.models.contact.Contact = None, language:
    str = None, mailchimp: dict = None, memberships: dict
    = None, staff: bool = None, timezone: str = None)
```

Bases: object

Users in Isogeo platform.

Example

```
{
  "_abilities": [
    "string"
  ],
  "_created": "string (date-time)",
  "_id": "string (uuid)",
  "_modified": "string (date-time)",
  "contact": {
```

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```

    "_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"
  },
  "language": "string",
  "staff": "boolean",
  "timezone": "string"
}

```

```
ATTR_CREA = {'language': <class 'str'>, 'mailchimp': <class 'str'>, 'staff': <class
```

```
ATTR_MAP = {}
```

```
ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id': <class
```

contact

Gets the contact of this user.

Returns The contact of this user.

Return type *Contact*

language

Gets the id of this User.

Returns The id of this User.

Return type *str*

mailchimp

Gets the id of this User.

Returns The second address line of this User.

Return type *str*

staff

Staff status for the User.

Returns the staff status of the User

Return type *bool*

timezone

Gets the timezone of this User.

Returns The timezone of this User.

Return type `str`

`to_dict()` → dict

Returns the model properties as a dict.

`to_dict_creation()` → dict

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

`to_str()` → str

Returns the string representation of the model.

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: list = None, _created: str = None, _id: str = None, _modified: str = None, _tag: str = None, areKeywordsRestricted: bool = None, canCreateLegacyServiceLinks: bool = None, canCreateMetadata: bool = None, code: str = None, contact: isogeo_pysdk.models.contact.Contact = None, hasCswClient: bool = None, hasScanFme: bool = None, keywordsCasing: str = None, limits: dict = None, metadataLanguage: str = None, themeColor: str = 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',
```

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```

        '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'
}

```

ATTR_CREA = {'canCreateLegacyServiceLinks': <class 'bool'>, 'canCreateMetadata': <cl

ATTR_MAP = {'contact': ['contact.addressLine1', 'contact.addressLine2', 'contact.addr

ATTR_TYPES = {'_abilities': <class 'list'>, '_created': <class 'str'>, '_id': <clas

areKeywordsRestricted

Gets the areKeywordsRestricted of this Workgroup.

Returns The areKeywordsRestricted of this Workgroup.

Return type str

canCreateLegacyServiceLinks

Gets the canCreateLegacyServiceLinks of this Workgroup.

Returns The canCreateLegacyServiceLinks of this Workgroup.

Return type str

canCreateMetadata

Gets the canCreateMetadata of this Workgroup.

Returns The canCreateMetadata of this Workgroup.

Return type str

code

Gets the code of this Workgroup.

Returns The code of this Workgroup.

Return type `str`

contact

Gets the contact of this Workgroup.

Returns The contact of this Workgroup.

Return type `dict`

hasCswClient

Gets the hasCswClient of this Workgroup.

Returns The hasCswClient of this Workgroup.

Return type `str`

keywordsCasing

Gets the keywordsCasing of this Workgroup.

Returns The keywordsCasing of this Workgroup.

Return type `str`

limits

Gets the limits of this Workgroup.

Returns The limits of this Workgroup.

Return type `dict`

metadataLanguage

Gets the metadataLanguage of this Workgroup.

Returns The metadataLanguage of this Workgroup.

Return type `str`

name

Shortcut to get the name of the workgroup.

themeColor

Gets the themeColor of this Workgroup.

Returns The themeColor of this Workgroup.

Return type `str`

to_dict () → `dict`

Returns the model properties as a dict.

to_dict_creation () → `dict`

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

to_str () → `str`

Returns the string representation of the model.

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.

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*) → True

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: str, md_type: str*)

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: str = 'api.isogeo.com', proxies: dict = None*) → bool

Test if an internet connection is operational. Src: <https://stackoverflow.com/a/20913928/2556577>.

Parameters **remote_server** (*str*) – remote server used to check

check_is_uuid (*uuid_str: str*)

Check if it's an Isogeo UUID handling specific form.

Parameters **uuid_str** (*str*) – UUID string to check

check_request_parameters (*parameters: dict = {}*)

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: isogeo_pysdk.exceptions.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: str = 'group', client_secret: str = None, platform: str = 'qa', proxy: dict = None, timeout: tuple = (15, 45), lang: str = 'fr', app_name: str = 'isogeo-pysdk/3.2.5', max_retries: int = 2, pool_connections: int = 20, pool_maxsize: int = 50, **kwargs)
    Bases: requests_oauthlib.oauth2_session.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](#)

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=environ.get("ISOGEO_API_USER_LEGACY_CLIENT_ID"),
    client_secret=environ.get("ISOGEO_API_USER_LEGACY_CLIENT_SECRET"),
    auth_mode="user_legacy",
    auto_refresh_url="{}/oauth/token".format(environ.get("ISOGEO_ID_URL")),
    platform=environ.get("ISOGEO_PLATFORM", "qa"),
)

# getting a token
isogeo.connect(
    username=environ.get("ISOGEO_USER_NAME"),
    password=environ.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=environ.get("ISOGEO_API_DEV_ID"),
    client_secret=environ.get("ISOGEO_API_DEV_SECRET"),
    auth_mode="group",
    auto_refresh_url="{}/oauth/token".format(environ.get("ISOGEO_ID_URL")),
    platform=environ.get("ISOGEO_PLATFORM", "qa"),
)

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

```
AUTH_MODES = {'group': {'client_id': <class 'str'>, 'client_secret': <class 'str'>}}
```

connect (*username: str = None, password: str = 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()`

header

isogeo_pysdk.translator module

Additional strings to be translated from Isogeo API.

class `isogeo_pysdk.translator.IsogeoTranslator` (*lang: str = 'FR'*)

Bases: `object`

Makes easier the translation of Isogeo API specific strings.

Parameters `lang` (*str*) – language code to apply. EN or FR.

tr (*subdomain: str, string_to_translate: str = ''*) → `str`

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

isogeo_pysdk.utils module

Complementary set of utils to use with Isogeo API.

class `isogeo_pysdk.utils.IsogeoUtils` (*proxies: dict = {}*)

Bases: `object`

Complementary set of utility methods and functions to make it easier using Isogeo API.

API_URLS = {'prod': 'api', 'qa': 'api.qa'}

APP_URLS = {'prod': 'https://app.isogeo.com', 'qa': 'https://qa-isogeo-app.azurewebs

CSW_URLS = {'prod': 'https://services.api.isogeo.com/', 'qa': 'http://services.api.q

MNG_URLS = {'prod': 'https://manage.isogeo.com', 'qa': 'https://qa-isogeo-manage.azu

OC_URLS = {'prod': 'https://open.isogeo.com', 'qa': 'https://qa-isogeo-open.azureweb

WEBAPPS = {'csw_getcap': {'args': ('share_id', 'share_token'), 'url': 'https://serv

classmethod `cache_clearer` (*only_already_hit: bool = 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: int*) → `str`

Convert a mount of octets in readable size.

Parameters `octets` (*int*) – mount of octets to convert

classmethod `convert_uuid` (*in_uuid: str = <class 'str'>, mode: bool = 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: str = 'client_secrets.json'*) → dict
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: str*)

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: isogeo_pysdk.models.metadata.Metadata, tab: str = 'identification'*) → str
Returns the edition URL of a metadata.

Parameters

- **metadata** (*Metadata*) – metadata
- **tab** (*str*) – target tab in the web form. Optionnal. Defaults to 'identification'.

get_isogeo_version (*component: str = 'api', prot: str = 'https'*)

Get Isogeo components versions. Authentication not required.

Parameters **component** (*str*) – which platform component. Options:

- api [default]
- db
- app

get_request_base_url (*route: str, prot: str = 'https'*) → *str*

Build the request url for the specified route.

Parameters

- **route** (*str*) – route to format
- **prot** (*str*) – https [DEFAULT] or http

classmethod **get_url_base_from_url_token** (*url_api_token: str = 'https://id.api.isogeo.com/oauth/token'*) → *str*

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: str = '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: str = 'https://api.isogeo.com/'*) → *str*

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: str, try_again: bool = 1*) → `datetime.datetime`

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: int, page_size: int = 100*) → `int`

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

register_webapp (*webapp_name: str, webapp_args: list, webapp_url: str*)

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: str = 'prod'*)

Set Isogeo base URLs according to platform.

Parameters **platform** (*str*) – platform to use. Options:

- prod [DEFAULT]
- qa
- int

classmethod `set_lang_and_locale` (*lang: str*)

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: str = '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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