
ESY Documentation

Release 1.0.0

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Sep 18, 2018

Contents:

1	Introduction	1
2	Installation	3
3	Documentation	5
4	Usage	7
4.1	Pagination	8
4.2	Using the semantic wrapper	8
4.3	Using the Bravado interface	9
4.4	Caching	10
4.5	Authentication and devel mode	10
5	Development	13
5.1	Introduction	13
5.2	Installation	13
5.3	Documentation	13
5.4	Usage	14
5.4.1	Pagination	14
5.4.2	Using the semantic wrapper	14
5.4.3	Using the Bravado interface	15
5.4.4	Caching	16
5.4.5	Authentication and devel mode	16
5.5	Development	18
5.6	Entities API	18
5.6.1	Character	18
5.6.2	Corporation	22
5.6.3	Alliance	24
5.7	ESI API	25
5.7.1	Alliance	25
5.7.2	Assets	26
5.7.3	Bookmarks	27
5.7.4	Calendar	28
5.7.5	Character	29
5.7.6	Clones	31
5.7.7	Contacts	32
5.7.8	Contracts	34

5.7.9	Corporation	35
5.7.10	Dogma	39
5.7.11	Faction_Warfare	40
5.7.12	Fittings	41
5.7.13	Fleets	42
5.7.14	Incursions	45
5.7.15	Industry	45
5.7.16	Insurance	47
5.7.17	Killmails	47
5.7.18	Location	48
5.7.19	Loyalty	48
5.7.20	Mail	49
5.7.21	Market	51
5.7.22	Opportunities	53
5.7.23	Planetary_Interaction	53
5.7.24	Routes	54
5.7.25	Search	55
5.7.26	Skills	55
5.7.27	Sovereignty	56
5.7.28	Status	56
5.7.29	Universe	57
5.7.30	User_Interface	61
5.7.31	Wallet	63
5.7.32	Wars	64
5.8	modules	64
6	Indices and tables	69
	Python Module Index	71

CHAPTER 1

Introduction

There are many options for consuming the ESI web services. ESY aims to be an easy-to-use library with the nuts and bolts of dealing with an OpenAPI interface abstracted away.

ESY is inspired by Entity's gloriously pythonic [eveapi](#) library.

CHAPTER 2

Installation

The latest stable version of ESY is available from PyPI:

```
$ pip install esy
```


CHAPTER 3

Documentation

Documentation is available at esy.readthedocs.io.

For documentation of the various ESI routes, ESY also provides a [terse list](#) of their parameters and return types. Further information can be explored at the main [ESI documentation site](#)

CHAPTER 4

Usage

ESY comes with two interfaces to ESI:

- An interface generated by [Bravado](#), with some added sugar for dealing with pagination.
- A semantic wrapper generated through pythonic voodoo.

The two interfaces caters different needs. The Bravado interface is an OpenAPI wrapper around the ESI that will be familiar for most developers familiar working with swagger. The semantic wrapper, on the other hand, generates classes for various entities in ESI like Character, Corporation and Alliance. Neither interface is mutual exclusive and for many use cases, it makes sense using both.

Regardless of interface, to use ESY, you must first initialize a client:

```
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')
```

The client can take a second or two to initialize, as the swagger specification is downloaded and parsed. To speed this up, you can download the specification locally:

```
$ curl https://esi.evetech.net/latest/swagger.json -o swagger.json
```

Then initialize the client using the local file:

```
import json
from esy.client import ESIClient

with open('swagger.json', 'r') as spec_file:
    spec = json.load(spec_file)
client = ESIClient.get_client('my-user-agent', spec=spec)
```

For production instances, keeping the spec in [Redis](#) or some other cache is highly recommended.

4.1 Pagination

For ESI routes which are paginated, ESY will return a `ESIPageGenerator` which is a generator yielding the native data type of the route.

4.2 Using the semantic wrapper

```
from esy.entities import Character, Corporation, Alliance, Entity

# You can initialize entities using their IDs
vittoros = Character(941287462)
evolution = Corporation(144749962)
ccp = Alliance(434243723)

# To speed up initialization, it's recommended to create and share an ESIClient among
# instances. If no client is
# supplied, a new one will be created for each entity instance.
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')

vittoros = Character(941287462, _client=client)

# You can also initialize instances just using the entity names

vittoros = Character.from_name('Vittoros', _client=client)
evolution = Corporation.from_name('Evolution', _client=client)

# or speed things up by initializing many entites at the same time

entities = Entity.from_names('Vittoros', 'Evolution', 'Northern Coalition.', _
    _client=client)
print(entities)

{'Northern Coalition.': <esy.entities.Alliance object at 0x0000023967F10860>,
 'Vittoros': <esy.entities.Character object at 0x0000023967F10BE0>,
 'Evolution': <esy.entities.Corporation object at 0x0000023967F10B70>}
```

Any initialized entity will allow you to access the various public information. To access the private services, you need to supply an authorization token first.

```
vittoros = Character.from_name('Vittoros', _client=client, _token='hunter2')

# or you can set the token after initialization

vittoros.set_token('hunter2')
```

After this, you can access all the private services:

```
for asset_page in vittoros.get_assets():
    print(asset_page)

for contract_page in vittoros.get_contracts():
```

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```

for contract in contract_page:
    for bid in vittoros.get_contracts_contract_bids(contract_id=contract.get(
↪'contract_id')):
        print(bid.get('bidder_id'), bid.get('amount'), bid.get('date_bid'))

```

Check out the [entities API](#) for a more extensive list of available services.

4.3 Using the Bravado interface

The Bravado interface is available from the ESIClient instance.

```

from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')

# Get list of alliances
alliances = client.Alliance.get_alliances()

# Get info on a corporation
evolution = client.Corporation.get_corporations_corporation_id(corporation_
↪id=144749962)
print(evolution)

{'alliance_id': 1727758877,
 'ceo_id': 144509256,
 'creator_id': 144509256,
 'date_founded': datetime.datetime(2003, 7, 30, 8, 33, tzinfo=tzutc()),
 'description': 'Those who cannot adapt become victims of Evolution.',
 'home_station_id': 60013843,
 'member_count': 316,
 'name': 'Evolution',
 'shares': 1000,
 'tax_rate': 0.5,
 'ticker': 'EVOL',
 'url': 'http://www.eve-evol.com',
 'faction_id': None}

# Get paginated asset list
swag = client.Corporation.get_corporations_corporation_id_assets(corporation_
↪id=144749962,
                                                                    _token='esi token')

# swag is an ESIPageGenerator, implementing the generator interface
# Loop through it to get the asset pages
for page in swag: # Returns a list of assets
    for asset in page: # Asset dict
        print(asset.get('type_id'),
              asset.get('location_id'))
        # 22457
        # 16074150552

```

4.4 Caching

ESY does not implement caching itself, but supports using a cache through a cache proxy object. The proxy needs to implement the following interface:

```
class Cache(object):
    def get(self, key: int) -> object:
        pass

    def set(self, key: int, data: object, cached_until: datetime.datetime):
        pass

    def __contains__(self, item: object) -> bool:
        pass
```

4.5 Authentication and devel mode

ESY can handle the authentication flow for you:

```
from esy.auth import ESIAuthenticator

auth = ESIAuthenticator()
refresh_token, access_token = auth.verify_authorization_code('authorization code from ↵
↳esi',
                                                             'your client ID',
                                                             'your secret key')

auth.verify_access_token(access_token)
{'CharacterID': 941287462,
 'CharacterName': 'Vittoros',
 'ExpiresOn': '2018-06-11T19:01:15.182864Z',
 'Scopes': ' ',
 'TokenType': 'Character',
 'CharacterOwnerHash': '*****'}

new_access_token = auth.get_access_token(refresh_token,
                                         'your client ID',
                                         'your secret key')

auth.revoke_token(refresh_token,
                  'your client ID',
                  'your secret key')

auth.revoke_token(access_token,
                  'your client ID',
                  'your secret key',
                  token_type='access_token')
```

To help developers getting started without having to implement the entire authentication workflow, ESY also implements an ad-hoc web server to get you refresh tokens. You can use it directly in the python prompt to do some API exploration or you can use it in your tests to produce refresh or access tokens for testing your ESI calls.

First, create a new application at <https://developers.eveonline.com/> with callback URL set to <http://localhost:8000> or whichever address and port you'll be running the devel server.

```
import esy.devel

# get_authorization_code has many parameters, but for basic usage:

auth_code = esy.devel.get_authorization_code(client_id='your client ID',
                                              callback_url='your callback URL',
                                              scopes='your space-delimited scopes')

# This will start the web server in the background (per-default listening on
↳localhost:8000)
# and print the login URL on stdout. After authenticating in your browser, the web
↳server
# will get redirect from the SSO with the authorization code, then return that.

# For situations where you are not able to reach the network where you are running
↳ESY,
# you can also use CLI login:

auth_code = esy.devel.get_authorization_code(cli_login=True,
                                              client_id='your client ID',
                                              callback_url='your callback URL',
                                              scopes='your space-delimited scopes')

# This will prompt for username and password, then let you pick a character.
# If you are running tests, you can also supply username, password and character_id as
# keyword arguments to get_authorization_code, in addition to cli_login=True. This
↳will
# automate the entire flow. Remember to revoke your tokens afterwards and for bob's
↳sake;
# don't display your username and/or password!

# After getting the authorization code, you can get the tokens:

refresh_token, access_token = esy.devel.verify_authorization_code(auth_code,
                                                                    client_id='your
↳client ID',
                                                                    secret_key='your
↳secret key')
# Character info

char_info = esy.devel.verify_access_token(access_token)

# Get your swag
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='your-user-agent')
assets = client.Assets.get_characters_character_id_assets(
    character_id=char_info.get('CharacterId'), _token=access_token)

for page in assets:
    print(page)
```

The devel mode will use parameters from environment settings, if present:

Parameter	Environment setting	Default
CLIENT_ID	ESY_CLIENT_ID	None
SECRET_KEY	ESY_SECRET_KEY	None
SCOPES	ESY_SCOPES	None
CALLBACK_URL	ESY_CALLBACK_URL	http://localhost:8000
SERVER_ADDRESS	ESY_SERVER_ADDRESS	localhost
SERVER_PORT	ESY_SERVER_PORT	8000

ESY uses the [Bravado](#) OpenAPI library to parse the ESI swagger schema and create an usable interface. The purpose of creating a custom wrapper of Bravado for ESI, is to make the interface a bit more user friendly. Pagination is handled automatically by returning generators for any route which accepts a page parameter, while non-paginated data is handled in their native data type. Tokens can be set per-call, instead of per-client, allowing for using headers and still getting data for many tokens without the need to reinitialize the client.

The authentication flow uses [requests-oauthlib](#).

5.1 Introduction

There are many options for consuming the ESI web services. ESY aims to be an easy-to-use library with the nuts and bolts of dealing with an OpenAPI interface abstracted away.

ESY is inspired by Entity's gloriously pythonic [eveapi](#) library.

5.2 Installation

The latest stable version of ESY is available from PyPI:

```
$ pip install esy
```

5.3 Documentation

Documentation is available at esy.readthedocs.io.

For documentation of the various ESI routes, ESY also provides a [terse list](#) of their parameters and return types. Further information can be explored at the main [ESI documentation site](#)

5.4 Usage

ESY comes with two interfaces to ESI:

- An interface generated by [Bravado](#), with some added sugar for dealing with pagination.
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The two interfaces caters different needs. The Bravado interface is an OpenAPI wrapper around the ESI that will be familiar for most developers familiar working with swagger. The semantic wrapper, on the other hand, generates classes for various entities in ESI like Character, Corporation and Alliance. Neither interface is mutual exclusive and for many use cases, it makes sense using both.

Regardless of interface, to use ESY, you must first initialize a client:

```
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')
```

The client can take a second or two to initialize, as the swagger specification is downloaded and parsed. To speed this up, you can download the specification locally:

```
$ curl https://esi.evetech.net/latest/swagger.json -o swagger.json
```

Then initialize the client using the local file:

```
import json
from esy.client import ESIClient

with open('swagger.json', 'r') as spec_file:
    spec = json.load(spec_file)
client = ESIClient.get_client('my-user-agent', spec=spec)
```

For production instances, keeping the spec in [Redis](#) or some other cache is highly recommended.

5.4.1 Pagination

For ESI routes which are paginated, ESY will return a [ESIPageGenerator](#) which is a generator yielding the native data type of the route.

5.4.2 Using the semantic wrapper

```
from esy.entities import Character, Corporation, Alliance, Entity

# You can initialize entities using their IDs
vittoros = Character(941287462)
evolution = Corporation(144749962)
ccp = Alliance(434243723)

# To speed up initialization, it's recommended to create and share an ESIClient among
# instances. If no client is
# supplied, a new one will be created for each entity instance.
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')
```

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```
vittoros = Character(941287462, _client=client)

# You can also initialize instances just using the entity names

vittoros = Character.from_name('Vittoros', _client=client)
evolution = Corporation.from_name('Evolution', _client=client)

# or speed things up by initializing many entites at the same time

entities = Entity.from_names('Vittoros', 'Evolution', 'Northern Coalition.', _
    ↪_client=client)
print(entities)

{'Northern Coalition.': <esy.entities.Alliance object at 0x0000023967F10860>,
 'Vittoros': <esy.entities.Character object at 0x0000023967F10BE0>,
 'Evolution': <esy.entities.Corporation object at 0x0000023967F10B70>}
```

Any initialized entity will allow you to access the various public information. To access the private services, you need to supply an authorization token first.

```
vittoros = Character.from_name('Vittoros', _client=client, _token='hunter2')

# or you can set the token after initialization

vittoros.set_token('hunter2')
```

After this, you can access all the private services:

```
for asset_page in vittoros.get_assets():
    print(asset_page)

for contract_page in vittoros.get_contracts():
    for contract in contract_page:
        for bid in vittoros.get_contracts_contract_bids(contract_id=contract.get(
            ↪'contract_id')):
            print(bid.get('bidder_id'), bid.get('amount'), bid.get('date_bid'))
```

Check out the [entities API](#) for a more extensive list of available services.

5.4.3 Using the Bravado interface

The Bravado interface is available from the ESIClient instance.

```
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='my-user-agent')

# Get list of alliances
alliances = client.Alliance.get_alliances()

# Get info on a corporation
evolution = client.Corporation.get_corporations_corporation_id(corporation_
    ↪id=144749962)
print(evolution)
```

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```
{'alliance_id': 1727758877,
 'ceo_id': 144509256,
 'creator_id': 144509256,
 'date_founded': datetime.datetime(2003, 7, 30, 8, 33, tzinfo=tzutc()),
 'description': 'Those who cannot adapt become victims of Evolution.',
 'home_station_id': 60013843,
 'member_count': 316,
 'name': 'Evolution',
 'shares': 1000,
 'tax_rate': 0.5,
 'ticker': 'EVOL',
 'url': 'http://www.eve-evol.com',
 'faction_id': None}
```

```
# Get paginated asset list
swag = client.Corporation.get_corporations_corporation_id_assets(corporation_
↳id=144749962,
                                                                    _token='esi token')
# swag is an ESIPageGenerator, implementing the generator interface
# Loop through it to get the asset pages
for page in swag: # Returns a list of assets
    for asset in page: # Asset dict
        print(asset.get('type_id'),
              asset.get('location_id'))
        # 22457
        # 16074150552
```

5.4.4 Caching

ESY does not implement caching itself, but supports using a cache through a cache proxy object. The proxy needs to implement the following interface:

```
class Cache(object):
    def get(self, key: int) -> object:
        pass

    def set(self, key: int, data: object, cached_until: datetime.datetime):
        pass

    def __contains__(self, item: object) -> bool:
        pass
```

5.4.5 Authentication and devel mode

ESY can handle the authentication flow for you:

```
from esy.auth import ESIAuthenticator

auth = ESIAuthenticator()
refresh_token, access_token = auth.verify_authorization_code('authorization code from_
↳esi',
                                                             'your client ID',
                                                             'your secret key')
```

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```
auth.verify_access_token(access_token)
{'CharacterID': 941287462,
 'CharacterName': 'Vittoros',
 'ExpiresOn': '2018-06-11T19:01:15.182864Z',
 'Scopes': ' ',
 'TokenType': 'Character',
 'CharacterOwnerHash': '*****'}

new_access_token = auth.get_access_token(refresh_token,
                                         'your client ID',
                                         'your secret key')

auth.revoke_token(refresh_token,
                  'your client ID',
                  'your secret key')

auth.revoke_token(access_token,
                  'your client ID',
                  'your secret key',
                  token_type='access_token')
```

To help developers getting started without having to implement the entire authentication workflow, ESY also implements an ad-hoc web server to get you refresh tokens. You can use it directly in the python prompt to do some API exploration or you can use it in your tests to produce refresh or access tokens for testing your ESI calls.

First, create a new application at <https://developers.eveonline.com/> with callback URL set to <http://localhost:8000> or whichever address and port you'll be running the devel server.

```
import esy.devel

# get_authorization_code has many parameters, but for basic usage:

auth_code = esy.devel.get_authorization_code(client_id='your client ID',
                                             callback_url='your callback URL',
                                             scopes='your space-delimited scopes')

# This will start the web server in the background (per-default listening on
↳localhost:8000)
# and print the login URL on stdout. After authenticating in your browser, the web_
↳server
# will get redirect from the SSO with the authorization code, then return that.

# For situations where you are not able to reach the network where you are running_
↳ESY,
# you can also use CLI login:

auth_code = esy.devel.get_authorization_code(cli_login=True,
                                             client_id='your client ID',
                                             callback_url='your callback URL',
                                             scopes='your space-delimited scopes')

# This will prompt for username and password, then let you pick a character.
# If you are running tests, you can also supply username, password and character_id as
# keyword arguments to get_authorization_code, in addition to cli_login=True. This_
↳will
# automate the entire flow. Remember to revoke your tokens afterwards and for bob's_
↳sake;
```

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```
# don't display your username and/or password!

# After getting the authorization code, you can get the tokens:

refresh_token, access_token = esy.devel.verify_authorization_code(auth_code,
                                                                    client_id='your_
↳client ID',
                                                                    secret_key='your_
↳secret key')
# Character info

char_info = esy.devel.verify_access_token(access_token)

# Get your swag
from esy.client import ESIClient
client = ESIClient.get_client(user_agent='your-user-agent')
assets = client.Assets.get_characters_character_id_assets(
    character_id=char_info.get('CharacterId'), _token=access_token)

for page in assets:
    print(page)
```

The devel mode will use parameters from environment settings, if present:

Parameter	Environment setting	Default
CLIENT_ID	ESY_CLIENT_ID	None
SECRET_KEY	ESY_SECRET_KEY	None
SCOPES	ESY_SCOPES	None
CALLBACK_URL	ESY_CALLBACK_URL	http://localhost:8000
SERVER_ADDRESS	ESY_SERVER_ADDRESS	localhost
SERVER_PORT	ESY_SERVER_PORT	8000

5.5 Development

ESY uses the [Bravado](#) OpenAPI library to parse the ESI swagger schema and create an usable interface. The purpose of creating a custom wrapper of Bravado for ESI, is to make the interface a bit more user friendly. Pagination is handled automatically by returning generators for any route which accepts a page parameter, while non-paginated data is handled in their native data type. Tokens can be set per-call, instead of per-client, allowing for using headers and still getting data for many tokens without the need to reinitialize the client.

The authentication flow uses [requests-oauthlib](#).

5.6 Entities API

5.6.1 Character

```
class Character
```

from_name()

Initialize an entity from a name

Parameters

- **name** (*str*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

from_names()

Initialize a set of entities from a list of names

Parameters

- ***names** (*list*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

Return type *dict*

get_agents_research()

Get agents research

get_assets()

Get character assets

get_attributes()

Get character attributes

get_blueprints()

Get blueprints

get_bookmarks()

List bookmarks

get_bookmarks_folders()

List bookmark folders

get_calendar()

List calendar event summaries

get_calendar_event(event_id=None)

Get an event

Parameters **event_id** (*int*) – event_id

get_calendar_event_attendees(event_id=None)

Get attendees

Parameters **event_id** (*int*) – event_id

get_clones()

Get clones

get_contacts()

Get contacts

get_contacts_labels()

Get contact labels

get_contracts()
Get contracts

get_contracts_contract_bids() (*contract_id=None*)
Get contract bids

Parameters *contract_id* (*int*) – contract_id

get_contracts_contract_items() (*contract_id=None*)
Get contract items

Parameters *contract_id* (*int*) – contract_id

get_corporationhistory()
Get corporation history

get_fatigue()
Get jump fatigue

get_fittings()
Get fittings

get_fleet()
Get character fleet info

get_fw_stats()
Overview of a character involved in faction warfare

get_implants()
Get active implants

get_industry_jobs()
List character industry jobs

get_killmails_recent()
Get a character's recent kills and losses

get_location()
Get character location

get_loyalty_points()
Get loyalty points

get_mail()
Return mail headers

get_mail_labels()
Get mail labels and unread counts

get_mail_lists()
Return mailing list subscriptions

get_mail_mail() (*mail_id=None*)
Return a mail

Parameters *mail_id* (*int*) – mail_id

get_medals()
Get medals

get_mining()
Character mining ledger

get_notifications()
Get character notifications

get_notifications_contacts()
Get new contact notifications

get_online()
Get character online

get_opportunities()
Get a character's completed tasks

get_orders()
List open orders from a character

get_orders_history()
List historical orders by a character

get_planets()
Get colonies

get_planets_planet(planet_id=None)
Get colony layout

Parameters **planet_id** (*int*) – planet_id

get_portrait()
Get character portraits

get_roles()
Get character corporation roles

get_search()
Search on a string

get_ship()
Get current ship

get_skillqueue()
Get character's skill queue

get_skills()
Get character skills

get_standings()
Get standings

get_stats()
Yearly aggregate stats

get_titles()
Get character corporation titles

get_wallet()
Get a character's wallet balance

get_wallet_journal()
Get character wallet journal

get_wallet_transactions()
Get wallet transactions

set_token()
Sets the token used for calling ESI operations.

Parameters **token** (*str*) – ESI authorization token

Returns

5.6.2 Corporation

class Corporation

from_name()

Initialize an entity from a name

Parameters

- **name** (*str*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

from_names()

Initialize a set of entities from a list of names

Parameters

- ***names** (*list*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

Return type *dict*

get_alliancehistory()

Get alliance history

get_assets()

Get corporation assets

get_blueprints()

Get corporation blueprints

get_bookmarks()

List corporation bookmarks

get_bookmarks_folders()

List corporation bookmark folders

get_contacts()

Get corporation contacts

get_contacts_labels()

Get corporation contact labels

get_containers_logs()

Get all corporation ALSC logs

get_contracts()

Get corporation contracts

get_contracts_contract_bids (*contract_id=None*)

Get corporation contract bids

Parameters **contract_id** (*int*) – contract_id

get_contracts_contract_items (*contract_id=None*)
Get corporation contract items

Parameters **contract_id** (*int*) – contract_id

get_customs_offices ()
List corporation customs offices

get_divisions ()
Get corporation divisions

get_facilities ()
Get corporation facilities

get_fw_stats ()
Overview of a corporation involved in faction warfare

get_icons ()
Get corporation icon

get_industry_jobs ()
List corporation industry jobs

get_killmails_recent ()
Get a corporation's recent kills and losses

get_medals ()
Get corporation medals

get_medals_issued ()
Get corporation issued medals

get_members ()
Get corporation members

get_members_limit ()
Get corporation member limit

get_members_titles ()
Get corporation's members' titles

get_membertracking ()
Track corporation members

get_orders ()
List open orders from a corporation

get_orders_history ()
List historical orders from a corporation

get_roles ()
Get corporation member roles

get_roles_history ()
Get corporation member roles history

get_shareholders ()
Get corporation shareholders

get_standings ()
Get corporation standings

get_starbases ()
Get corporation starbases (POSeS)

get_starbases_starbase (*starbase_id=None*)
 Get starbase (POS) detail

Parameters **starbase_id** (*int*) – starbase_id

get_structures ()
 Get corporation structures

get_titles ()
 Get corporation titles

get_wallets ()
 Returns a corporation’s wallet balance

get_wallets_division_journal ()
 Get corporation wallet journal

get_wallets_division_transactions ()
 Get corporation wallet transactions

set_token ()
 Sets the token used for calling ESI operations.

Parameters **token** (*str*) – ESI authorization token

Returns

5.6.3 Alliance

class Alliance

from_name ()
 Initialize an entity from a name

Parameters

- **name** (*str*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

from_names ()
 Initialize a set of entities from a list of names

Parameters

- ***names** (*list*) –
- **_client** (*ESIClient*) –
- **_token** (*str*) –

Returns

Return type *dict*

get_contacts ()
 Get alliance contacts

get_contacts_labels ()
 Get alliance contact labels

```

get_corporations ()
    List alliance's corporations

get_icons ()
    Get alliance icon

set_token ()
    Sets the token used for calling ESI operations.

    Parameters token (str) – ESI authorization token

    Returns

```

5.7 ESI API

5.7.1 Alliance

class Alliance

```

get_alliances ()
    List all alliances

    return List of Alliance IDs

    rtype list

get_alliances_alliance_id (alliance_id=None)
    Get alliance information

    param int alliance_id An EVE alliance ID

    return Public data about an alliance

    rtype dict

get_alliances_alliance_id_corporations (alliance_id=None)
    List alliance's corporations

    param int alliance_id An EVE alliance ID

    return List of corporation IDs

    rtype list

get_alliances_alliance_id_icons (alliance_id=None)
    Get alliance icon

    param int alliance_id An EVE alliance ID

    return Icon URLs for the given alliance id and server

    rtype dict

```

5.7.2 Assets

class Assets

get_characters_character_id_assets (*character_id=None, _token=None*)

Get character assets

param int character_id An EVE character ID

param str _token ESI authorization token

return A flat list of the users assets

rtype *ESIPageGenerator* list

get_corporations_corporation_id_assets (*corporation_id=None, _token=None*)

Get corporation assets

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of assets

rtype *ESIPageGenerator* list

post_characters_character_id_assets_locations (*character_id=None, item_ids=None, _token=None*)

Get character asset locations

param int character_id An EVE character ID

param None item_ids A list of item ids

param str _token ESI authorization token

return List of asset locations

rtype list

post_characters_character_id_assets_names (*character_id=None, item_ids=None, _token=None*)

Get character asset names

param int character_id An EVE character ID

param None item_ids A list of item ids

param str _token ESI authorization token

return List of asset names

rtype list

post_corporations_corporation_id_assets_locations (*corporation_id=None, item_ids=None, _token=None*)

Get corporation asset locations

param int corporation_id An EVE corporation ID

param None item_ids A list of item ids

param str _token ESI authorization token

return List of asset locations

rtype list

post_corporations_corporation_id_assets_names (*corporation_id=None, item_ids=None, _token=None*)

Get corporation asset names

param int corporation_id An EVE corporation ID

param None item_ids A list of item ids

param str _token ESI authorization token

return List of asset names

rtype list

5.7.3 Bookmarks

class Bookmarks

get_characters_character_id_bookmarks (*character_id=None, _token=None*)

List bookmarks

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of bookmarks

rtype *ESIPageGenerator* list

get_characters_character_id_bookmarks_folders (*character_id=None, _token=None*)

List bookmark folders

param int character_id An EVE character ID

param str _token ESI authorization token

return List of bookmark folders

rtype *ESIPageGenerator* list

get_corporations_corporation_id_bookmarks (*corporation_id=None, _token=None*)

List corporation bookmarks

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation owned bookmarks

rtype *ESIPageGenerator* list

get_corporations_corporation_id_bookmarks_folders (*corporation_id=None, _token=None*)

List corporation bookmark folders

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation owned bookmark folders

rtype *ESIPageGenerator* list

5.7.4 Calendar

class Calendar

get_characters_character_id_calendar (*character_id=None* [, *from_event=None*], *_token=None*)

List calendar event summaries

param int character_id An EVE character ID

param int from_event The event ID to retrieve events from

param str _token ESI authorization token

return A collection of event summaries

rtype list

get_characters_character_id_calendar_event_id (*character_id=None*,
event_id=None, *_token=None*)

Get an event

param int character_id An EVE character ID

param int event_id The id of the event requested

param str _token ESI authorization token

return Full details of a specific event

rtype dict

get_characters_character_id_calendar_event_id_attendees (*character_id=None*,
event_id=None, *_token=None*)

Get attendees

param int character_id An EVE character ID

param int event_id The id of the event requested

param str _token ESI authorization token

return List of attendees

rtype list

put_characters_character_id_calendar_event_id (*character_id=None*,
event_id=None, *response=None*,
_token=None)

Respond to an event

param int character_id An EVE character ID

param int event_id The ID of the event requested

param None response The response value to set, overriding current value

param str _token ESI authorization token

return None

rtype None

5.7.5 Character

class Character

get_characters_character_id (*character_id=None*)

Get character's public information

param int character_id An EVE character ID

return Public data for the given character

rtype dict

get_characters_character_id_agents_research (*character_id=None, _token=None*)

Get agents research

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of agents research information

rtype list

get_characters_character_id_blueprints (*character_id=None, _token=None*)

Get blueprints

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of blueprints

rtype *ESIPageGenerator* list

get_characters_character_id_corporationhistory (*character_id=None*)

Get corporation history

param int character_id An EVE character ID

return Corporation history for the given character

rtype list

get_characters_character_id_fatigue (*character_id=None, _token=None*)

Get jump fatigue

param int character_id An EVE character ID

param str _token ESI authorization token

return Jump activation and fatigue information

rtype dict

get_characters_character_id_medals (*character_id=None, _token=None*)

Get medals

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of medals

rtype list

get_characters_character_id_notifications (*character_id=None, _token=None*)

Get character notifications

param int character_id An EVE character ID

param str _token ESI authorization token

return Returns your recent notifications

rtype list

get_characters_character_id_notifications_contacts (*character_id=None, _token=None*)

Get new contact notifications

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of contact notifications

rtype list

get_characters_character_id_portrait (*character_id=None*)

Get character portraits

param int character_id An EVE character ID

return Public data for the given character

rtype dict

get_characters_character_id_roles (*character_id=None, _token=None*)

Get character corporation roles

param int character_id An EVE character ID

param str _token ESI authorization token

return The character's roles in thier corporation

rtype dict

get_characters_character_id_standings (*character_id=None, _token=None*)

Get standings

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of standings

rtype list

get_characters_character_id_stats (*character_id=None, _token=None*)

Yearly aggregate stats

param int character_id An EVE character ID

param str _token ESI authorization token

return Character stats

rtype list

get_characters_character_id_titles (*character_id=None, _token=None*)

Get character corporation titles

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of titles

rtype list

post_characters_affiliation (*characters=None*)

Character affiliation

param None characters The character IDs to fetch affiliations for. All characters must exist, or none will be returned

return Character corporation, alliance and faction IDs

rtype list

post_characters_character_id_cspa (*character_id=None, characters=None, _token=None*)

Calculate a CSPA charge cost

param int character_id An EVE character ID

param None characters The target characters to calculate the charge for

param str _token ESI authorization token

return None

rtype None

5.7.6 Clones

class Clones

get_characters_character_id_clones (*character_id=None, _token=None*)

Get clones

param int character_id An EVE character ID

param str _token ESI authorization token

return Clone information for the given character

rtype dict

get_characters_character_id_implants (*character_id=None, _token=None*)

Get active implants

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of implant type ids

rtype list

5.7.7 Contacts

class Contacts

delete_characters_character_id_contacts (*character_id=None, contact_ids=None, _token=None*)

Delete contacts

param int character_id An EVE character ID

param list contact_ids A list of contacts to delete

param str _token ESI authorization token

return None

rtype None

get_alliances_alliance_id_contacts (*alliance_id=None, _token=None*)

Get alliance contacts

param int alliance_id An EVE alliance ID

param str _token ESI authorization token

return A list of contacts

rtype *ESIPageGenerator* list

get_alliances_alliance_id_contacts_labels (*alliance_id=None, _token=None*)

Get alliance contact labels

param int alliance_id An EVE alliance ID

param str _token ESI authorization token

return A list of alliance contact labels

rtype list

get_characters_character_id_contacts (*character_id=None, _token=None*)

Get contacts

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of contacts

rtype *ESIPageGenerator* list

get_characters_character_id_contacts_labels (*character_id=None, _token=None*)

Get contact labels

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of contact labels

rtype list

get_corporations_corporation_id_contacts (*corporation_id=None, _token=None*)

Get corporation contacts

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of contacts

rtype *ESIPageGenerator* list

get_corporations_corporation_id_contacts_labels (*corporation_id=None, _token=None*)

Get corporation contact labels

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of corporation contact labels

rtype list

post_characters_character_id_contacts (*character_id=None, contact_ids=None[, label_ids=None], standing=None[, watched=False], _token=None*)

Add contacts

param int character_id An EVE character ID

param None contact_ids A list of contacts

param list label_ids Add custom labels to the new contact

param number standing Standing for the contact

param boolean watched Whether the contact should be watched, note this is only effective on characters

param str _token ESI authorization token

return None

rtype None

put_characters_character_id_contacts (*character_id=None, contact_ids=None[, label_ids=None], standing=None[, watched=False], _token=None*)

Edit contacts

param int character_id An EVE character ID

param None contact_ids A list of contacts

param list label_ids Add custom labels to the contact

param number standing Standing for the contact

param boolean watched Whether the contact should be watched, note this is only effective on characters

param str _token ESI authorization token

return None

rtype None

5.7.8 Contracts

class Contracts

get_characters_character_id_contracts (*character_id=None, _token=None*)

Get contracts

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of contracts

rtype *ESIPageGenerator* list

get_characters_character_id_contracts_contract_id_bids (*character_id=None, contract_id=None, _token=None*)

Get contract bids

param int character_id An EVE character ID

param int contract_id ID of a contract

param str _token ESI authorization token

return A list of bids

rtype list

get_characters_character_id_contracts_contract_id_items (*character_id=None, contract_id=None, _token=None*)

Get contract items

param int character_id An EVE character ID

param int contract_id ID of a contract

param str _token ESI authorization token

return A list of items in this contract

rtype list

get_contracts_public_bids_contract_id (*contract_id=None*)

Get public contract bids

param int contract_id ID of a contract

return A list of bids

rtype *ESIPageGenerator* list

get_contracts_public_items_contract_id (*contract_id=None*)

Get public contract items

param int contract_id ID of a contract

return A list of items in this contract

rtype *ESIPageGenerator* list

get_contracts_public_region_id (*region_id=None*)

Get public contracts

param int region_id An EVE region id

return A list of contracts

rtype *ESIPageGenerator* list

get_corporations_corporation_id_contracts (*corporation_id=None, _token=None*)

Get corporation contracts

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of contracts

rtype *ESIPageGenerator* list

get_corporations_corporation_id_contracts_contract_id_bids (*contract_id=None, corporation_id=None, _token=None*)

Get corporation contract bids

param int contract_id ID of a contract

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of bids

rtype *ESIPageGenerator* list

get_corporations_corporation_id_contracts_contract_id_items (*contract_id=None, corporation_id=None, _token=None*)

Get corporation contract items

param int contract_id ID of a contract

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of items in this contract

rtype list

5.7.9 Corporation

class Corporation

get_corporations_corporation_id (*corporation_id=None*)

Get corporation information

param int corporation_id An EVE corporation ID

return Public information about a corporation

rtype dict

get_corporations_corporation_id_alliancehistory (*corporation_id=None*)

Get alliance history

param int corporation_id An EVE corporation ID

return Alliance history for the given corporation

rtype list

get_corporations_corporation_id_blueprints (*corporation_id=None, _token=None*)

Get corporation blueprints

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation blueprints

rtype *ESIPageGenerator* list

get_corporations_corporation_id_containers_logs (*corporation_id=None, _token=None*)

Get all corporation ALSC logs

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation ALSC logs

rtype *ESIPageGenerator* list

get_corporations_corporation_id_divisions (*corporation_id=None, _token=None*)

Get corporation divisions

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation division names

rtype dict

get_corporations_corporation_id_facilities (*corporation_id=None, _token=None*)

Get corporation facilities

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of corporation facilities

rtype list

get_corporations_corporation_id_icons (*corporation_id=None*)

Get corporation icon

param int corporation_id An EVE corporation ID

return Urls for icons for the given corporation id and server

rtype dict

get_corporations_corporation_id_medals (*corporation_id=None, _token=None*)

Get corporation medals

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of medals

rtype *ESIPageGenerator* list

get_corporations_corporation_id_medals_issued (*corporation_id=None, _token=None*)

Get corporation issued medals

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of issued medals

rtype *ESIPageGenerator* list

get_corporations_corporation_id_members (*corporation_id=None, _token=None*)

Get corporation members

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of member character IDs

rtype list

get_corporations_corporation_id_members_limit (*corporation_id=None, _token=None*)

Get corporation member limit

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return The corporation's member limit

rtype int

get_corporations_corporation_id_members_titles (*corporation_id=None, _token=None*)

Get corporation's members' titles

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of members and theirs titles

rtype list

get_corporations_corporation_id_membertracking (*corporation_id=None, _token=None*)

Track corporation members

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of member character IDs

rtype list

get_corporations_corporation_id_roles (*corporation_id=None, _token=None*)

Get corporation member roles

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of member character ID's and roles

rtype list

get_corporations_corporation_id_roles_history (*corporation_id=None, _token=None*)

Get corporation member roles history

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of role changes

rtype *ESIPageGenerator* list

get_corporations_corporation_id_shareholders (*corporation_id=None, _token=None*)

Get corporation shareholders

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of shareholders

rtype *ESIPageGenerator* list

get_corporations_corporation_id_standings (*corporation_id=None, _token=None*)

Get corporation standings

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of standings

rtype *ESIPageGenerator* list

get_corporations_corporation_id_starbases (*corporation_id=None, _token=None*)

Get corporation starbases (POSeS)

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return List of starbases (POSeS)

rtype *ESIPageGenerator* list

get_corporations_corporation_id_starbases_starbase_id (*corporation_id=None, starbase_id=None, system_id=None, _token=None*)

Get starbase (POS) detail

```

param int corporation_id An EVE corporation ID
param int starbase_id An EVE starbase (POS) ID
param int system_id The solar system this starbase (POS) is located in,
param str _token ESI authorization token
return List of starbases (POSeS)
rtype dict

```

```

get_corporations_corporation_id_structures ([Accept_Language='en-us'], corporation_id=None, [language='en-us'], _token=None)

```

Get corporation structures

```

param str Accept_Language Language to use in the response
param int corporation_id An EVE corporation ID
param str language Language to use in the response, takes precedence over Accept-Language
param str _token ESI authorization token
return List of corporation structures' information
rtype ESIPageGenerator list

```

```

get_corporations_corporation_id_titles (corporation_id=None, _token=None)

```

Get corporation titles

```

param int corporation_id An EVE corporation ID
param str _token ESI authorization token
return A list of titles
rtype list

```

```

get_corporations_npccorps ()

```

Get npc corporations

```

return A list of npc corporation ids
rtype list

```

5.7.10 Dogma

```

class Dogma

```

```

get_dogma_attributes ()

```

Get attributes

```

return A list of dogma attribute ids
rtype list

```

```

get_dogma_attributes_attribute_id (attribute_id=None)

```

Get attribute information

param int attribute_id A dogma attribute ID
return Information about a dogma attribute
rtype dict

get_dogma_dynamic_items_type_id_item_id (*item_id=None, type_id=None*)

Get dynamic item information

param int item_id item_id integer
param int type_id type_id integer
return Details about a dynamic item
rtype dict

get_dogma_effects ()

Get effects

return A list of dogma effect ids
rtype list

get_dogma_effects_effect_id (*effect_id=None*)

Get effect information

param int effect_id A dogma effect ID
return Information about a dogma effect
rtype dict

5.7.11 Faction_Warfare

class Faction_Warfare

get_characters_character_id_fw_stats (*character_id=None, _token=None*)

Overview of a character involved in faction warfare

param int character_id An EVE character ID
param str _token ESI authorization token
return Faction warfare statistics for a given character
rtype dict

get_corporations_corporation_id_fw_stats (*corporation_id=None, _token=None*)

Overview of a corporation involved in faction warfare

param int corporation_id An EVE corporation ID
param str _token ESI authorization token
return Faction warfare statistics for a given corporation
rtype dict

get_fw_leaderboards ()

List of the top factions in faction warfare

return Corporation leaderboard of kills and victory points within faction warfare
rtype dict

get_fw_leaderboards_characters ()

List of the top pilots in faction warfare

return Character leaderboard of kills and victory points within faction warfare
rtype dict

get_fw_leaderboards_corporations ()

List of the top corporations in faction warfare

return Corporation leaderboard of kills and victory points within faction warfare
rtype dict

get_fw_stats ()

An overview of statistics about factions involved in faction warfare

return Per faction breakdown of faction warfare statistics
rtype list

get_fw_systems ()

Ownership of faction warfare systems

return All faction warfare solar systems
rtype list

get_fw_wars ()

Data about which NPC factions are at war

return A list of NPC factions at war
rtype list

5.7.12 Fittings

class Fittings

delete_characters_character_id_fittings_fitting_id (*character_id=None, fitting_id=None, _token=None*)

Delete fitting

param int character_id An EVE character ID
param int fitting_id ID for a fitting of this character
param str _token ESI authorization token
return None
rtype None

get_characters_character_id_fittings (*character_id=None, _token=None*)

Get fittings

```

param int character_id An EVE character ID
param str _token ESI authorization token
return A list of fittings
rtype list

```

```

post_characters_character_id_fittings (character_id=None, fitting=None, _to-
                                         ken=None)

```

Create fitting

```

param int character_id An EVE character ID
param None fitting Details about the new fitting
param str _token ESI authorization token
return None
rtype None

```

5.7.13 Fleets

class Fleets

```

delete_fleets_fleet_id_members_member_id (fleet_id=None, member_id=None, _to-
                                             ken=None)

```

Kick fleet member

```

param int fleet_id ID for a fleet
param int member_id The character ID of a member in this fleet
param str _token ESI authorization token
return None
rtype None

```

```

delete_fleets_fleet_id_squads_squad_id (fleet_id=None, squad_id=None, _to-
                                           ken=None)

```

Delete fleet squad

```

param int fleet_id ID for a fleet
param int squad_id The squad to delete
param str _token ESI authorization token
return None
rtype None

```

```

delete_fleets_fleet_id_wings_wing_id (fleet_id=None, wing_id=None, _token=None)

```

Delete fleet wing

```

param int fleet_id ID for a fleet
param int wing_id The wing to delete
param str _token ESI authorization token

```

return None

rtype None

get_characters_character_id_fleet (*character_id=None, _token=None*)

Get character fleet info

param int character_id An EVE character ID

param str _token ESI authorization token

return Details about the character's fleet

rtype dict

get_fleets_fleet_id (*fleet_id=None, _token=None*)

Get fleet information

param int fleet_id ID for a fleet

param str _token ESI authorization token

return Details about a fleet

rtype dict

get_fleets_fleet_id_members (*[Accept_Language='en-us'], fleet_id=None[, language='en-us'], _token=None*)

Get fleet members

param str Accept_Language Language to use in the response

param int fleet_id ID for a fleet

param str language Language to use in the response, takes precedence over Accept-Language

param str _token ESI authorization token

return A list of fleet members

rtype list

get_fleets_fleet_id_wings (*[Accept_Language='en-us'], fleet_id=None[, language='en-us'], _token=None*)

Get fleet wings

param str Accept_Language Language to use in the response

param int fleet_id ID for a fleet

param str language Language to use in the response, takes precedence over Accept-Language

param str _token ESI authorization token

return A list of fleet wings

rtype list

post_fleets_fleet_id_members (*fleet_id=None, invitation=None, _token=None*)

Create fleet invitation

param int fleet_id ID for a fleet

param None invitation Details of the invitation

param str _token ESI authorization token

return None

rtype None

post_fleets_fleet_id_wings (*fleet_id=None, _token=None*)

Create fleet wing

param int fleet_id ID for a fleet

param str _token ESI authorization token

return None

rtype None

post_fleets_fleet_id_wings_wing_id_squads (*fleet_id=None, wing_id=None, _token=None*)

Create fleet squad

param int fleet_id ID for a fleet

param int wing_id The wing_id to create squad in

param str _token ESI authorization token

return None

rtype None

put_fleets_fleet_id (*fleet_id=None, new_settings=None, _token=None*)

Update fleet

param int fleet_id ID for a fleet

param None new_settings What to update for this fleet

param str _token ESI authorization token

return None

rtype None

put_fleets_fleet_id_members_member_id (*fleet_id=None, member_id=None, movement=None, _token=None*)

Move fleet member

param int fleet_id ID for a fleet

param int member_id The character ID of a member in this fleet

param None movement Details of the invitation

param str _token ESI authorization token

return None

rtype None

put_fleets_fleet_id_squads_squad_id (*fleet_id=None, naming=None, squad_id=None, _token=None*)

Rename fleet squad

param int fleet_id ID for a fleet

param None naming New name of the squad


```

    param int squad_id The squad to rename
    param str _token ESI authorization token
    return None
    rtype None

    put_fleets_fleet_id_wings_wing_id (fleet_id=None, naming=None, wing_id=None, _token=None)

```

Rename fleet wing

```

    param int fleet_id ID for a fleet
    param None naming New name of the wing
    param int wing_id The wing to rename
    param str _token ESI authorization token
    return None
    rtype None

```

5.7.14 Incursions

class Incursions

```

    get_incursions ()
    List incursions
    return A list of incursions
    rtype list

```

5.7.15 Industry

class Industry

```

    get_characters_character_id_industry_jobs (character_id=None[, include_completed=None], _token=None)

```

List character industry jobs

```

    param int character_id An EVE character ID
    param boolean include_completed Whether to retrieve completed character industry jobs. Only includes jobs from the past 90 days
    param str _token ESI authorization token
    return Industry jobs placed by a character
    rtype list

```

```

    get_characters_character_id_mining (character_id=None, _token=None)

```

Character mining ledger

```

    param int character_id An EVE character ID
    param str _token ESI authorization token

```

return Mining ledger of a character

rtype *ESIPageGenerator* list

get_corporation_corporation_id_mining_extractions (*corporation_id=None*, *_token=None*)

Moon extraction timers

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of chunk timers

rtype *ESIPageGenerator* list

get_corporation_corporation_id_mining_observers (*corporation_id=None*, *_token=None*)

Corporation mining observers

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return Observer list of a corporation

rtype *ESIPageGenerator* list

get_corporation_corporation_id_mining_observers_observer_id (*corporation_id=None*, *observer_id=None*, *_token=None*)

Observed corporation mining

param int corporation_id An EVE corporation ID

param int observer_id A mining observer id

param str _token ESI authorization token

return Mining ledger of an observer

rtype *ESIPageGenerator* list

get_corporations_corporation_id_industry_jobs (*corporation_id=None*, *include_completed=False*, *_token=None*)

List corporation industry jobs

param int corporation_id An EVE corporation ID

param boolean include_completed Whether to retrieve completed corporation industry jobs. Only includes jobs from the past 90 days

param str _token ESI authorization token

return A list of corporation industry jobs

rtype *ESIPageGenerator* list

get_industry_facilities ()

List industry facilities

return A list of facilities

```

    rtype list

get_industry_systems ()
    List solar system cost indices

    return A list of cost indices

    rtype list

```

5.7.16 Insurance

class Insurance

```

get_insurance_prices ([Accept_Language='en-us'][, language='en-us'])
    List insurance levels

    param str Accept_Language Language to use in the response

    param str language Language to use in the response, takes precedence over Accept-
        Language

    return A list of insurance levels for all ship types

    rtype list

```

5.7.17 Killmails

class Killmails

```

get_characters_character_id_killmails_recent (character_id=None, _token=None)
    Get a character's recent kills and losses

    param int character_id An EVE character ID

    param str _token ESI authorization token

    return A list of killmail IDs and hashes

    rtype ESIPageGenerator list

get_corporations_corporation_id_killmails_recent (corporation_id=None, _to-
        ken=None)
    Get a corporation's recent kills and losses

    param int corporation_id An EVE corporation ID

    param str _token ESI authorization token

    return A list of killmail IDs and hashes

    rtype ESIPageGenerator list

get_killmails_killmail_id_killmail_hash (killmail_hash=None, killmail_id=None)
    Get a single killmail

    param str killmail_hash The killmail hash for verification

    param int killmail_id The killmail ID to be queried

```

return A killmail

rtype dict

5.7.18 Location

class Location

get_characters_character_id_location (*character_id=None, _token=None*)

Get character location

param int character_id An EVE character ID

param str _token ESI authorization token

return Information about the characters current location. Returns the current solar system id, and also the current station or structure ID if applicable

rtype dict

get_characters_character_id_online (*character_id=None, _token=None*)

Get character online

param int character_id An EVE character ID

param str _token ESI authorization token

return Object describing the character's online status

rtype dict

get_characters_character_id_ship (*character_id=None, _token=None*)

Get current ship

param int character_id An EVE character ID

param str _token ESI authorization token

return Get the current ship type, name and id

rtype dict

5.7.19 Loyalty

class Loyalty

get_characters_character_id_loyalty_points (*character_id=None, _token=None*)

Get loyalty points

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of loyalty points

rtype list

get_loyalty_stores_corporation_id_offers (*corporation_id=None*)

List loyalty store offers

param int corporation_id An EVE corporation ID
return A list of offers
rtype list

5.7.20 Mail

class Mail

delete_characters_character_id_mail_labels_label_id (*character_id=None,*
label_id=None, *_token=None*)

Delete a mail label

param int character_id An EVE character ID
param int label_id An EVE label id
param str _token ESI authorization token
return None
rtype None

delete_characters_character_id_mail_mail_id (*character_id=None,* *mail_id=None,*
_token=None)

Delete a mail

param int character_id An EVE character ID
param int mail_id An EVE mail ID
param str _token ESI authorization token
return None
rtype None

get_characters_character_id_mail (*character_id=None* [, *labels=None*] [, *last_mail_id=None*], *_token=None*)

Return mail headers

param int character_id An EVE character ID
param list labels Fetch only mails that match one or more of the given labels
param int last_mail_id List only mail with an ID lower than the given ID, if present
param str _token ESI authorization token
return The requested mail
rtype list

get_characters_character_id_mail_labels (*character_id=None,* *_token=None*)

Get mail labels and unread counts

param int character_id An EVE character ID
param str _token ESI authorization token
return A list of mail labels and unread counts

rtype dict

get_characters_character_id_mail_lists (*character_id=None, _token=None*)

Return mailing list subscriptions

param int character_id An EVE character ID

param str _token ESI authorization token

return Mailing lists

rtype list

get_characters_character_id_mail_mail_id (*character_id=None, mail_id=None, _token=None*)

Return a mail

param int character_id An EVE character ID

param int mail_id An EVE mail ID

param str _token ESI authorization token

return Contents of a mail

rtype dict

post_characters_character_id_mail (*character_id=None, mail=None, _token=None*)

Send a new mail

param int character_id An EVE character ID

param None mail The mail to send

param str _token ESI authorization token

return None

rtype None

post_characters_character_id_mail_labels (*character_id=None, label=None, _token=None*)

Create a mail label

param int character_id An EVE character ID

param None label Label to create

param str _token ESI authorization token

return None

rtype None

put_characters_character_id_mail_mail_id (*character_id=None, contents=None, mail_id=None, _token=None*)

Update metadata about a mail

param int character_id An EVE character ID

param None contents Data used to update the mail

param int mail_id An EVE mail ID

param str _token ESI authorization token

return None

rtype None

5.7.21 Market

class Market

get_characters_character_id_orders (*character_id=None, _token=None*)

List open orders from a character

param int character_id An EVE character ID

param str _token ESI authorization token

return Open market orders placed by a character

rtype list

get_characters_character_id_orders_history (*character_id=None, _token=None*)

List historical orders by a character

param int character_id An EVE character ID

param str _token ESI authorization token

return Expired and cancelled market orders placed by a character

rtype *ESIPageGenerator* list

get_corporations_corporation_id_orders (*corporation_id=None, _token=None*)

List open orders from a corporation

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of open market orders

rtype *ESIPageGenerator* list

get_corporations_corporation_id_orders_history (*corporation_id=None, _token=None*)

List historical orders from a corporation

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return Expired and cancelled market orders placed on behalf of a corporation

rtype *ESIPageGenerator* list

get_markets_groups ()

Get item groups

return A list of item group ids

rtype list

get_markets_groups_market_group_id ([*Accept-Language='en-us'*][, *language='en-us'*], *market_group_id=None*)

Get item group information

param str Accept_Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

param int market_group_id An Eve item group ID

return Information about an item group

rtype dict

get_markets_prices ()

List market prices

return A list of prices

rtype list

get_markets_region_id_history (*region_id=None, type_id=None*)

List historical market statistics in a region

param int region_id Return statistics in this region

param int type_id Return statistics for this type

return A list of historical market statistics

rtype list

get_markets_region_id_orders (*order_type=None, region_id=None[, type_id=None]*)

List orders in a region

param str order_type Filter buy/sell orders, return all orders by default. If you query without type_id, we always return both buy and sell orders

param int region_id Return orders in this region

param int type_id Return orders only for this type

return A list of orders

rtype *ESIPageGenerator* list

get_markets_region_id_types (*region_id=None*)

List type IDs relevant to a market

param int region_id Return statistics in this region

return A list of type IDs

rtype *ESIPageGenerator* list

get_markets_structures_structure_id (*structure_id=None, _token=None*)

List orders in a structure

param int structure_id Return orders in this structure

param str _token ESI authorization token

return A list of orders

rtype *ESIPageGenerator* list

5.7.22 Opportunities

class Opportunities

get_characters_character_id_opportunities (*character_id=None, _token=None*)

Get a character's completed tasks

param int character_id An EVE character ID

param str _token ESI authorization token

return A list of opportunities task ids

rtype list

get_opportunities_groups ()

Get opportunities groups

return A list of opportunities group ids

rtype list

get_opportunities_groups_group_id (*[Accept_Language='en-us'], group_id=None[, language='en-us']*)

Get opportunities group

param str Accept_Language Language to use in the response

param int group_id ID of an opportunities group

param str language Language to use in the response, takes precedence over Accept-Language

return Details of an opportunities group

rtype dict

get_opportunities_tasks ()

Get opportunities tasks

return A list of opportunities task ids

rtype list

get_opportunities_tasks_task_id (*task_id=None*)

Get opportunities task

param int task_id ID of an opportunities task

return Details of an opportunities task

rtype dict

5.7.23 Planetary Interaction

class Planetary_Interaction

get_characters_character_id_planets (*character_id=None, _token=None*)

Get colonies

param int character_id An EVE character ID

param str _token ESI authorization token

return List of colonies

rtype list

get_characters_character_id_planets_planet_id (*character_id=None*,
planet_id=None, *_token=None*)

Get colony layout

param int character_id An EVE character ID

param int planet_id Planet id of the target planet

param str _token ESI authorization token

return Colony layout

rtype dict

get_corporations_corporation_id_customs_offices (*corporation_id=None*, *_to-*
ken=None)

List corporation customs offices

param int corporation_id An EVE corporation ID

param str _token ESI authorization token

return A list of customs offices and their settings

rtype *ESIPageGenerator* list

get_universe_schematics_schematic_id (*schematic_id=None*)

Get schematic information

param int schematic_id A PI schematic ID

return Public data about a schematic

rtype dict

5.7.24 Routes

class Routes

get_route_origin_destination ([*avoid=None*][, *connections=None*], *destination=None*[,
flag='shortest'], *origin=None*)

Get route

param list avoid avoid solar system ID(s)

param list connections connected solar system pairs

param int destination destination solar system ID

param str flag route security preference

param int origin origin solar system ID

return Solar systems in route from origin to destination

rtype list

5.7.25 Search

class Search

```
get_characters_character_id_search ([Accept_Language='en-us'], categories=None,  
                                     character_id=None[, language='en-us'],  
                                     search=None[, strict=False ], _token=None)
```

Search on a string

param str Accept_Language Language to use in the response

param list categories Type of entities to search for

param int character_id An EVE character ID

param str language Language to use in the response, takes precedence over Accept-Language

param str search The string to search on

param boolean strict Whether the search should be a strict match

param str _token ESI authorization token

return A list of search results

rtype dict

```
get_search ([Accept_Language='en-us'], categories=None[, language='en-us'], search=None[,  
                                                    strict=False ])
```

Search on a string

param str Accept_Language Language to use in the response

param list categories Type of entities to search for

param str language Language to use in the response, takes precedence over Accept-Language

param str search The string to search on

param boolean strict Whether the search should be a strict match

return A list of search results

rtype dict

5.7.26 Skills

class Skills

```
get_characters_character_id_attributes (character_id=None, _token=None)
```

Get character attributes

param int character_id An EVE character ID

param str _token ESI authorization token

return Attributes of a character

rtype dict

get_characters_character_id_skillqueue (*character_id=None, _token=None*)

Get character's skill queue

param int character_id An EVE character ID

param str _token ESI authorization token

return The current skill queue, sorted ascending by finishing time

rtype list

get_characters_character_id_skills (*character_id=None, _token=None*)

Get character skills

param int character_id An EVE character ID

param str _token ESI authorization token

return Known skills for the character

rtype dict

5.7.27 Sovereignty

class Sovereignty

get_sovereignty_campaigns ()

List sovereignty campaigns

return A list of sovereignty campaigns

rtype list

get_sovereignty_map ()

List sovereignty of systems

return A list of sovereignty information for solar systems in New Eden

rtype list

get_sovereignty_structures ()

List sovereignty structures

return A list of sovereignty structures

rtype list

5.7.28 Status

class Status

get_status ()

Retrieve the uptime and player counts

return Server status

rtype dict

5.7.29 Universe

class Universe

get_universe_ancestries (*[Accept_Language='en-us']*, *[language='en-us']*)

Get ancestries

param str Accept_Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

return A list of ancestries

rtype list

get_universe_asteroid_belts_asteroid_belt_id (*asteroid_belt_id=None*)

Get asteroid belt information

param int asteroid_belt_id asteroid_belt_id integer

return Information about an asteroid belt

rtype dict

get_universe_bloodlines (*[Accept_Language='en-us']*, *[language='en-us']*)

Get bloodlines

param str Accept_Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

return A list of bloodlines

rtype list

get_universe_categories ()

Get item categories

return A list of item category ids

rtype list

get_universe_categories_category_id (*[Accept_Language='en-us']*, *category_id=None*, *[language='en-us']*)

Get item category information

param str Accept_Language Language to use in the response

param int category_id An Eve item category ID

param str language Language to use in the response, takes precedence over Accept-Language

return Information about an item category

rtype dict

get_universe_constellations ()

Get constellations

return A list of constellation ids

rtype list

get_universe_constellations_constellation_id (*Accept_Language='en-us'*, *constellation_id=None* [, *language='en-us'*])

Get constellation information

param str Accept_Language Language to use in the response

param int constellation_id constellation_id integer

param str language Language to use in the response, takes precedence over Accept-Language

return Information about a constellation

rtype dict

get_universe_factions (*Accept_Language='en-us'*)[, *language='en-us'*])

Get factions

param str Accept_Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

return A list of factions

rtype list

get_universe_graphics ()

Get graphics

return A list of graphic ids

rtype list

get_universe_graphics_graphic_id (*graphic_id=None*)

Get graphic information

param int graphic_id graphic_id integer

return Information about a graphic

rtype dict

get_universe_groups ()

Get item groups

return A list of item group ids

rtype *ESIPageGenerator* list

get_universe_groups_group_id (*Accept_Language='en-us'*, *group_id=None* [, *language='en-us'*])

Get item group information

param str Accept_Language Language to use in the response

param int group_id An Eve item group ID

param str language Language to use in the response, takes precedence over Accept-Language

return Information about an item group

rtype dict

get_universe_moons_moon_id (*moon_id=None*)

Get moon information

param int moon_id moon_id integer

return Information about a moon

rtype dict

get_universe_planets_planet_id (*planet_id=None*)

Get planet information

param int planet_id planet_id integer

return Information about a planet

rtype dict

get_universe_races ([*Accept-Language='en-us'*][, *language='en-us'*])

Get character races

param str Accept-Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

return A list of character races

rtype list

get_universe_regions ()

Get regions

return A list of region ids

rtype list

get_universe_regions_region_id ([*Accept-Language='en-us'*][, *language='en-us'*], *region_id=None*)

Get region information

param str Accept-Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

param int region_id region_id integer

return Information about a region

rtype dict

get_universe_stargates_stargate_id (*stargate_id=None*)

Get stargate information

param int stargate_id stargate_id integer

return Information about a stargate

rtype dict

get_universe_stars_star_id (*star_id=None*)

Get star information

param int star_id star_id integer

return Information about a star

rtype dict

get_universe_stations_station_id (*station_id=None*)

Get station information

param int station_id station_id integer

return Information about a station

rtype dict

get_universe_structures ()

List all public structures

return List of public structure IDs

rtype list

get_universe_structures_structure_id (*structure_id=None, _token=None*)

Get structure information

param int structure_id An Eve structure ID

param str _token ESI authorization token

return Data about a structure

rtype dict

get_universe_system_jumps ()

Get system jumps

return A list of systems and number of jumps

rtype list

get_universe_system_kills ()

Get system kills

return A list of systems and number of ship, pod and NPC kills

rtype list

get_universe_systems ()

Get solar systems

return A list of solar system ids

rtype list

get_universe_systems_system_id (*[Accept_Language='en-us']* [, *language='en-us'*], *system_id=None*)

Get solar system information

param str Accept_Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

param int system_id system_id integer

return Information about a solar system

rtype dict

get_universe_types ()

Get types

return A list of type ids

rtype *ESIPageGenerator* list

get_universe_types_type_id ([*Accept-Language='en-us'*][, *language='en-us'*],
type_id=None)

Get type information

param str Accept-Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

param int type_id An Eve item type ID

return Information about a type

rtype dict

post_universe_ids ([*Accept-Language='en-us'*][, *language='en-us'*], *names=None*)

Bulk names to IDs

param str Accept-Language Language to use in the response

param str language Language to use in the response, takes precedence over Accept-Language

param None names The names to resolve

return List of id/name associations for a set of names divided by category. Any name passed in that did not have a match will be ommitted

rtype dict

post_universe_names (*ids=None*)

Get names and categories for a set of ID's

param None ids The ids to resolve

return List of id/name associations for a set of ID's. All ID's must resolve to a name, or nothing will be returned

rtype list

5.7.30 User_Interface

class User_Interface

post_ui_autopilot_waypoint (*add_to_beginning=None*, *clear_other_waypoints=None*, *destination_id=None*, *_token=None*)

Set Autopilot Waypoint

param boolean add_to_beginning Whether this solar system should be added to the beginning of all waypoints

param boolean clear_other_waypoints Whether clean other waypoints before adding this one

param int destination_id The destination to travel to, can be solar system, station or structure's id

param str _token ESI authorization token

return None

rtype None

post_ui_openwindow_contract (*contract_id=None, _token=None*)

Open Contract Window

param int contract_id The contract to open

param str _token ESI authorization token

return None

rtype None

post_ui_openwindow_information (*target_id=None, _token=None*)

Open Information Window

param int target_id The target to open

param str _token ESI authorization token

return None

rtype None

post_ui_openwindow_marketdetails (*type_id=None, _token=None*)

Open Market Details

param int type_id The item type to open in market window

param str _token ESI authorization token

return None

rtype None

post_ui_openwindow_newmail (*new_mail=None, _token=None*)

Open New Mail Window

param None new_mail The details of mail to create

param str _token ESI authorization token

return None

rtype None

5.7.31 Wallet

class `Wallet`

get_characters_character_id_wallet (*character_id=None, _token=None*)

Get a character's wallet balance

param `int character_id` An EVE character ID

param `str _token` ESI authorization token

return Wallet balance

rtype number

get_characters_character_id_wallet_journal (*character_id=None, _token=None*)

Get character wallet journal

param `int character_id` An EVE character ID

param `str _token` ESI authorization token

return Journal entries

rtype *ESIPageGenerator* list

get_characters_character_id_wallet_transactions (*character_id=None* [, *from_id=None*], *_token=None*)

Get wallet transactions

param `int character_id` An EVE character ID

param `int from_id` Only show transactions happened before the one referenced by this id

param `str _token` ESI authorization token

return Wallet transactions

rtype list

get_corporations_corporation_id_wallets (*corporation_id=None, _token=None*)

Returns a corporation's wallet balance

param `int corporation_id` An EVE corporation ID

param `str _token` ESI authorization token

return List of corporation wallets

rtype list

get_corporations_corporation_id_wallets_division_journal (*corporation_id=None, division=None, _token=None*)

Get corporation wallet journal

param `int corporation_id` An EVE corporation ID

param `int division` Wallet key of the division to fetch journals from

param `str _token` ESI authorization token

return Journal entries

rtype *ESIPageGenerator* list

get_corporations_corporation_id_wallets_division_transactions (*corporation_id=None*,
division=None,
from_id=None,
to_id=None)

Get corporation wallet transactions

param int corporation_id An EVE corporation ID

param int division Wallet key of the division to fetch journals from

param int from_id Only show journal entries happened before the transaction referenced by this id

param str _token ESI authorization token

return Wallet transactions

rtype list

5.7.32 Wars

class Wars

get_wars (*max_war_id=None*)

List wars

param int max_war_id Only return wars with ID smaller than this

return A list of war IDs, in descending order by war_id

rtype list

get_wars_war_id (*war_id=None*)

Get war information

param int war_id ID for a war

return Details about a war

rtype dict

get_wars_war_id_killmails (*war_id=None*)

List kills for a war

param int war_id A valid war ID

return A list of killmail IDs and hashes

rtype *ESIPageGenerator* list

5.8 modules

```
class esy.client.ESICallableOperation(operation)
```

Wraps bravado's CallableOperation to handle pagination

```
class esy.client.ESIClient(swagger_spec, esi_endpoint, user_agent, use_models, cache)
```

Swagger client interface adapted to use with the ESI.

```
static get_client(user_agent='esy/vittoros@slack', use_models=False, spec=None, end-
                  point='https://esi.evetech.net/latest/swagger.json', datasource='tranquility',
                  cache=None)
```

Generates a client interface for ESI.

Parameters

- **user_agent** (*str*) –
- **use_models** –
- **spec** –
- **endpoint** (*str*) –
- **datasource** (*str*) –
- **cache** – A class which implements the cache interface

Returns An initialized client

Return type *ESIClient*

```
static get_swagger_spec(endpoint='https://esi.evetech.net/latest/swagger.json', data-
                        source='tranquility', cache=None)
```

Downloads and parses the swagger specification from the ESI endpoint.

Parameters

- **endpoint** (*str*) – URL to the ESI endpoint. Defaults to latest.
- **datasource** (*str*) – ESI datasource to use. Defaults to Tranquility.
- **cache** – Optional cache

Returns Swagger specification

Return type *dict*

```
class esy.client.ESIPageGenerator(requests_future, requestsresponse_adapter, operation, re-
                                sponse_callbacks, request_config, cache=None)
```

Generator for ESI API calls.

```
class esy.client.ESIRequestsClient(user_agent, cache=None)
```

Extends the bravado RequestsClient to handle pagination, user agent and per-request authorizations.

```
request(request_params, operation=None, response_callbacks=None, request_config=None, autho-
        rization_token=None)
```

Parameters

- **request_params** (*dict*) – complete request data.
- **operation** (*bravado_core.operation.Operation*) – operation that this http request is for. Defaults to None - in which case, we're obviously just retrieving a Swagger Spec.
- **request_config** (*RequestConfig*) – per-request configuration

Returns HTTP Future object

Return type

`class bravado_core.http_future.HttpFuture`

class `esy.client.ESIResourceDecorator` (*resource, also_return_response=False*)

Extends ResourceDecorator to wrap operations with ESICallableOperation

exception `esy.exceptions.ESIAuthorizationError`

exception `esy.exceptions.ESIError`

exception `esy.exceptions.ESIForbidden`

exception `esy.exceptions.ESINotFound`

class `esy.auth.ESIAuthenticator` (*access_token_endpoint='https://login.eveonline.com/oauth/token',
token_verify_endpoint='https://login.eveonline.com/oauth/verify',
revoke_token_endpoint='https://login.eveonline.com/oauth/revoke'*)

Handles ESI token authentication and verification process.

get_access_token (*refresh_token, client_id, secret, session=None, auth=None*)

Get a new access token using a refresh token

Parameters

- **refresh_token** (*str*) – The refresh token
- **client_id** (*str*) – The ESI ClientID
- **secret** (*str*) – The ESI Secret key
- **session** (*OAuth2Session*) – Existing session for reuse
- **auth** (*HTTPBasicAuth*) – Existing authentication handler for reuse

Returns New access token

Return type `str`

revoke_token (*token, client_id, secret, token_type='refresh_token', session=None, auth=None*)

Revoke refresh or access tokens.

Parameters

- **token** (*str*) – The token to revoke
- **client_id** (*str*) – The ESI ClientID
- **secret** (*str*) – The ESI Secret key
- **token_type** (*str*) – Token type to request from ESI
- **session** (*OAuth2Session*) – Existing session for reuse
- **auth** (*HTTPBasicAuth*) – Existing authentication handler for reuse

Returns Token revocation status

Return type `bool`

verify_access_token (*access_token*)

Verifies the refresh token with the ESI and retrieves character information.

Parameters **access_token** (*str*) – ESI access token

Returns dict with CharacterID, CharacterName and CharacterOwnerHash

Return type `dict`

verify_authorization_code (*authorization_code*, *client_id*, *secret*)

Trades an authorization code for a refresh and an access tokens from ESI

Parameters

- **authorization_code** (*str*) – The authorization code returned from ESI
- **client_id** (*str*) – The ESI ClientID
- **secret** (*str*) – The ESI Secret key

Returns (refresh_token, access_token)

Return type `tuple`

CHAPTER 6

Indices and tables

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

e

- `esy`, [65](#)
- `esy.auth`, [66](#)
- `esy.client`, [65](#)
- `esy.constants`, [66](#)
- `esy.exceptions`, [66](#)

A

Alliance (built-in class), 24, 25
 Assets (built-in class), 26

B

Bookmarks (built-in class), 27

C

Calendar (built-in class), 28
 Character (built-in class), 18, 29
 Clones (built-in class), 31
 Contacts (built-in class), 32
 Contracts (built-in class), 34
 Corporation (built-in class), 22, 35

D

delete_characters_character_id_contacts() (Contacts method), 32
 delete_characters_character_id_fittings_fitting_id() (Fittings method), 41
 delete_characters_character_id_mail_labels_label_id() (Mail method), 49
 delete_characters_character_id_mail_mail_id() (Mail method), 49
 delete_fleets_fleet_id_members_member_id() (Fleets method), 42
 delete_fleets_fleet_id_squads_squad_id() (Fleets method), 42
 delete_fleets_fleet_id_wings_wing_id() (Fleets method), 42
 Dogma (built-in class), 39

E

ESIAAuthenticator (class in esy.auth), 66
 ESIAuthorizationError, 66
 ESICallableOperation (class in esy.client), 65
 ESIClient (class in esy.client), 65
 ESISError, 66
 ESIForbidden, 66

ESINotFound, 66
 ESIPageGenerator (class in esy.client), 65
 ESIRRequestsClient (class in esy.client), 65
 ESIRResourceDecorator (class in esy.client), 66
 esy (module), 65
 esy.auth (module), 66
 esy.client (module), 65
 esy.constants (module), 66
 esy.exceptions (module), 66

F

Faction_Warfare (built-in class), 40
 Fittings (built-in class), 41
 Fleets (built-in class), 42
 from_name() (Alliance method), 24
 from_name() (Character method), 18
 from_name() (Corporation method), 22
 from_names() (Alliance method), 24
 from_names() (Character method), 19
 from_names() (Corporation method), 22

G

get_access_token() (esy.auth.ESIAAuthenticator method), 66
 get_agents_research() (Character method), 19
 get_alliancehistory() (Corporation method), 22
 get_alliances() (Alliance method), 25
 get_alliances_alliance_id() (Alliance method), 25
 get_alliances_alliance_id_contacts() (Contacts method), 32
 get_alliances_alliance_id_contacts_labels() (Contacts method), 32
 get_alliances_alliance_id_corporations() (Alliance method), 25
 get_alliances_alliance_id_icons() (Alliance method), 25
 get_assets() (Character method), 19
 get_assets() (Corporation method), 22
 get_attributes() (Character method), 19
 get_blueprints() (Character method), 19

[get_blueprints\(\)](#) (Corporation method), [22](#)
[get_bookmarks\(\)](#) (Character method), [19](#)
[get_bookmarks\(\)](#) (Corporation method), [22](#)
[get_bookmarks_folders\(\)](#) (Character method), [19](#)
[get_bookmarks_folders\(\)](#) (Corporation method), [22](#)
[get_calendar\(\)](#) (Character method), [19](#)
[get_calendar_event\(\)](#) (Character method), [19](#)
[get_calendar_event_attendees\(\)](#) (Character method), [19](#)
[get_characters_character_id\(\)](#) (Character method), [29](#)
[get_characters_character_id_agents_research\(\)](#) (Character method), [29](#)
[get_characters_character_id_assets\(\)](#) (Assets method), [26](#)
[get_characters_character_id_attributes\(\)](#) (Skills method), [55](#)
[get_characters_character_id_blueprints\(\)](#) (Character method), [29](#)
[get_characters_character_id_bookmarks\(\)](#) (Bookmarks method), [27](#)
[get_characters_character_id_bookmarks_folders\(\)](#) (Bookmarks method), [27](#)
[get_characters_character_id_calendar\(\)](#) (Calendar method), [28](#)
[get_characters_character_id_calendar_event_id\(\)](#) (Calendar method), [28](#)
[get_characters_character_id_calendar_event_id_attendees\(\)](#) (Calendar method), [28](#)
[get_characters_character_id_clones\(\)](#) (Clones method), [31](#)
[get_characters_character_id_contacts\(\)](#) (Contacts method), [32](#)
[get_characters_character_id_contacts_labels\(\)](#) (Contacts method), [32](#)
[get_characters_character_id_contracts\(\)](#) (Contracts method), [34](#)
[get_characters_character_id_contracts_contract_id_bids\(\)](#) (Contracts method), [34](#)
[get_characters_character_id_contracts_contract_id_items\(\)](#) (Contracts method), [34](#)
[get_characters_character_id_corporationhistory\(\)](#) (Character method), [29](#)
[get_characters_character_id_fatigue\(\)](#) (Character method), [29](#)
[get_characters_character_id_fittings\(\)](#) (Fittings method), [41](#)
[get_characters_character_id_fleet\(\)](#) (Fleets method), [43](#)
[get_characters_character_id_fw_stats\(\)](#) (Faction_Warfare method), [40](#)
[get_characters_character_id_implants\(\)](#) (Clones method), [31](#)
[get_characters_character_id_industry_jobs\(\)](#) (Industry method), [45](#)
[get_characters_character_id_killmails_recent\(\)](#) (Kill-mails method), [47](#)
[get_characters_character_id_location\(\)](#) (Location method), [48](#)
[get_characters_character_id_loyalty_points\(\)](#) (Loyalty method), [48](#)
[get_characters_character_id_mail\(\)](#) (Mail method), [49](#)
[get_characters_character_id_mail_labels\(\)](#) (Mail method), [49](#)
[get_characters_character_id_mail_lists\(\)](#) (Mail method), [50](#)
[get_characters_character_id_mail_mail_id\(\)](#) (Mail method), [50](#)
[get_characters_character_id_medals\(\)](#) (Character method), [29](#)
[get_characters_character_id_mining\(\)](#) (Industry method), [45](#)
[get_characters_character_id_notifications\(\)](#) (Character method), [30](#)
[get_characters_character_id_notifications_contacts\(\)](#) (Character method), [30](#)
[get_characters_character_id_online\(\)](#) (Location method), [48](#)
[get_characters_character_id_opportunities\(\)](#) (Opportunities method), [53](#)
[get_characters_character_id_orders\(\)](#) (Market method), [51](#)
[get_characters_character_id_orders_history\(\)](#) (Market method), [51](#)
[get_characters_character_id_planets\(\)](#) (Planetary_Interaction method), [53](#)
[get_characters_character_id_planets_planet_id\(\)](#) (Planetary_Interaction method), [54](#)
[get_characters_character_id_portrait\(\)](#) (Character method), [30](#)
[get_characters_character_id_roles\(\)](#) (Character method), [30](#)
[get_characters_character_id_search\(\)](#) (Search method), [55](#)
[get_characters_character_id_ship\(\)](#) (Location method), [48](#)
[get_characters_character_id_skillqueue\(\)](#) (Skills method), [55](#)
[get_characters_character_id_skills\(\)](#) (Skills method), [56](#)
[get_characters_character_id_standings\(\)](#) (Character method), [30](#)
[get_characters_character_id_stats\(\)](#) (Character method), [30](#)
[get_characters_character_id_titles\(\)](#) (Character method), [31](#)
[get_characters_character_id_wallet\(\)](#) (Wallet method), [63](#)
[get_characters_character_id_wallet_journal\(\)](#) (Wallet method), [63](#)
[get_characters_character_id_wallet_transactions\(\)](#) (Wallet method), [63](#)
[get_client\(\)](#) (esy.client.ESIClient static method), [65](#)
[get_clones\(\)](#) (Character method), [19](#)

[get_contacts\(\) \(Alliance method\), 24](#)
[get_contacts\(\) \(Character method\), 19](#)
[get_contacts\(\) \(Corporation method\), 22](#)
[get_contacts_labels\(\) \(Alliance method\), 24](#)
[get_contacts_labels\(\) \(Character method\), 19](#)
[get_contacts_labels\(\) \(Corporation method\), 22](#)
[get_containers_logs\(\) \(Corporation method\), 22](#)
[get_contracts\(\) \(Character method\), 19](#)
[get_contracts\(\) \(Corporation method\), 22](#)
[get_contracts_contract_bids\(\) \(Character method\), 20](#)
[get_contracts_contract_bids\(\) \(Corporation method\), 22](#)
[get_contracts_contract_items\(\) \(Character method\), 20](#)
[get_contracts_contract_items\(\) \(Corporation method\), 22](#)
[get_contracts_public_bids_contract_id\(\) \(Contracts method\), 34](#)
[get_contracts_public_items_contract_id\(\) \(Contracts method\), 34](#)
[get_contracts_public_region_id\(\) \(Contracts method\), 35](#)
[get_corporation_corporation_id_mining_extractions\(\) \(Industry method\), 46](#)
[get_corporation_corporation_id_mining_observers\(\) \(Industry method\), 46](#)
[get_corporation_corporation_id_mining_observers_observed_id\(\) \(Industry method\), 46](#)
[get_corporationhistory\(\) \(Character method\), 20](#)
[get_corporations\(\) \(Alliance method\), 24](#)
[get_corporations_corporation_id\(\) \(Corporation method\), 35](#)
[get_corporations_corporation_id_alliancehistory\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_assets\(\) \(Assets method\), 26](#)
[get_corporations_corporation_id_blueprints\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_bookmarks\(\) \(Bookmarks method\), 27](#)
[get_corporations_corporation_id_bookmarks_folders\(\) \(Bookmarks method\), 27](#)
[get_corporations_corporation_id_contacts\(\) \(Contacts method\), 33](#)
[get_corporations_corporation_id_contacts_labels\(\) \(Contacts method\), 33](#)
[get_corporations_corporation_id_containers_logs\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_contracts\(\) \(Contracts method\), 35](#)
[get_corporations_corporation_id_contracts_contract_id_bids\(\) \(Contracts method\), 35](#)
[get_corporations_corporation_id_contracts_contract_id_items\(\) \(Contracts method\), 35](#)
[get_corporations_corporation_id_customs_offices\(\) \(Planetary Interaction method\), 54](#)
[get_corporations_corporation_id_divisions\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_facilities\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_fw_stats\(\) \(Faction_Warfare method\), 40](#)
[get_corporations_corporation_id_icons\(\) \(Corporation method\), 36](#)
[get_corporations_corporation_id_industry_jobs\(\) \(Industry method\), 46](#)
[get_corporations_corporation_id_killmails_recent\(\) \(Killmails method\), 47](#)
[get_corporations_corporation_id_medals\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_medals_issued\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_members\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_members_limit\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_members_titles\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_membertracking\(\) \(Corporation method\), 37](#)
[get_corporations_corporation_id_orders\(\) \(Market method\), 51](#)
[get_corporations_corporation_id_orders_history\(\) \(Market method\), 51](#)
[get_corporations_corporation_id_roles\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_roles_history\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_shareholders\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_standings\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_starbases\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_starbases_starbase_id\(\) \(Corporation method\), 38](#)
[get_corporations_corporation_id_structures\(\) \(Corporation method\), 39](#)
[get_corporations_corporation_id_titles\(\) \(Corporation method\), 39](#)
[get_corporations_corporation_id_wallets\(\) \(Wallet method\), 63](#)
[get_corporations_corporation_id_wallets_division_journal\(\) \(Wallet method\), 63](#)
[get_corporations_corporation_id_wallets_division_transactions\(\) \(Wallet method\), 64](#)
[get_corporations_npccorps\(\) \(Corporation method\), 39](#)
[get_customs_offices\(\) \(Corporation method\), 23](#)
[get_divisions\(\) \(Corporation method\), 23](#)
[get_dogma_attributes\(\) \(Dogma method\), 39](#)
[get_dogma_attributes_attribute_id\(\) \(Dogma method\), 39](#)
[get_dogma_dynamic_items_type_id_item_id\(\) \(Dogma method\), 39](#)

method), 40

get_dogma_effects() (Dogma method), 40

get_dogma_effects_effect_id() (Dogma method), 40

get_facilities() (Corporation method), 23

get_fatigue() (Character method), 20

get_fittings() (Character method), 20

get_fleet() (Character method), 20

get_fleets_fleet_id() (Fleets method), 43

get_fleets_fleet_id_members() (Fleets method), 43

get_fleets_fleet_id_wings() (Fleets method), 43

get_fw_leaderboards() (Faction_Warfare method), 40

get_fw_leaderboards_characters() (Faction_Warfare method), 41

get_fw_leaderboards_corporations() (Faction_Warfare method), 41

get_fw_stats() (Character method), 20

get_fw_stats() (Corporation method), 23

get_fw_stats() (Faction_Warfare method), 41

get_fw_systems() (Faction_Warfare method), 41

get_fw_wars() (Faction_Warfare method), 41

get_icons() (Alliance method), 25

get_icons() (Corporation method), 23

get_implants() (Character method), 20

get_incursions() (Incursions method), 45

get_industry_facilities() (Industry method), 46

get_industry_jobs() (Character method), 20

get_industry_jobs() (Corporation method), 23

get_industry_systems() (Industry method), 47

get_insurance_prices() (Insurance method), 47

get_killmails_killmail_id_killmail_hash() (Killmails method), 47

get_killmails_recent() (Character method), 20

get_killmails_recent() (Corporation method), 23

get_location() (Character method), 20

get_loyalty_points() (Character method), 20

get_loyalty_stores_corporation_id_offers() (Loyalty method), 48

get_mail() (Character method), 20

get_mail_labels() (Character method), 20

get_mail_lists() (Character method), 20

get_mail_mail() (Character method), 20

get_markets_groups() (Market method), 51

get_markets_groups_market_group_id() (Market method), 51

get_markets_prices() (Market method), 52

get_markets_region_id_history() (Market method), 52

get_markets_region_id_orders() (Market method), 52

get_markets_region_id_types() (Market method), 52

get_markets_structures_structure_id() (Market method), 52

get_medals() (Character method), 20

get_medals() (Corporation method), 23

get_medals_issued() (Corporation method), 23

get_members() (Corporation method), 23

get_members_limit() (Corporation method), 23

get_members_titles() (Corporation method), 23

get_membertracking() (Corporation method), 23

get_mining() (Character method), 20

get_notifications() (Character method), 20

get_notifications_contacts() (Character method), 20

get_online() (Character method), 21

get_opportunities() (Character method), 21

get_opportunities_groups() (Opportunities method), 53

get_opportunities_groups_group_id() (Opportunities method), 53

get_opportunities_tasks() (Opportunities method), 53

get_opportunities_tasks_task_id() (Opportunities method), 53

get_orders() (Character method), 21

get_orders() (Corporation method), 23

get_orders_history() (Character method), 21

get_orders_history() (Corporation method), 23

get_planets() (Character method), 21

get_planets_planet() (Character method), 21

get_portrait() (Character method), 21

get_roles() (Character method), 21

get_roles() (Corporation method), 23

get_roles_history() (Corporation method), 23

get_route_origin_destination() (Routes method), 54

get_search() (Character method), 21

get_search() (Search method), 55

get_shareholders() (Corporation method), 23

get_ship() (Character method), 21

get_skillqueue() (Character method), 21

get_skills() (Character method), 21

get_sovereignty_campaigns() (Sovereignty method), 56

get_sovereignty_map() (Sovereignty method), 56

get_sovereignty_structures() (Sovereignty method), 56

get_standings() (Character method), 21

get_standings() (Corporation method), 23

get_starbases() (Corporation method), 23

get_starbases_starbase() (Corporation method), 23

get_stats() (Character method), 21

get_status() (Status method), 56

get_structures() (Corporation method), 24

get_swagger_spec() (esy.client.ESIClient static method), 65

get_titles() (Character method), 21

get_titles() (Corporation method), 24

get_universe_ancestries() (Universe method), 57

get_universe_asteroid_belts_asteroid_belt_id() (Universe method), 57

get_universe_bloodlines() (Universe method), 57

get_universe_categories() (Universe method), 57

get_universe_categories_category_id() (Universe method), 57

get_universe_constellations() (Universe method), 57

get_universe_constellations_constellation_id() (Universe method), 58
 get_universe_factions() (Universe method), 58
 get_universe_graphics() (Universe method), 58
 get_universe_graphics_graphic_id() (Universe method), 58
 get_universe_groups() (Universe method), 58
 get_universe_groups_group_id() (Universe method), 58
 get_universe_moons_moon_id() (Universe method), 59
 get_universe_planets_planet_id() (Universe method), 59
 get_universe_races() (Universe method), 59
 get_universe_regions() (Universe method), 59
 get_universe_regions_region_id() (Universe method), 59
 get_universe_schematics_schematic_id() (Planetary Interaction method), 54
 get_universe_stargates_stargate_id() (Universe method), 59
 get_universe_stars_star_id() (Universe method), 60
 get_universe_stations_station_id() (Universe method), 60
 get_universe_structures() (Universe method), 60
 get_universe_structures_structure_id() (Universe method), 60
 get_universe_system_jumps() (Universe method), 60
 get_universe_system_kills() (Universe method), 60
 get_universe_systems() (Universe method), 60
 get_universe_systems_system_id() (Universe method), 60
 get_universe_types() (Universe method), 61
 get_universe_types_type_id() (Universe method), 61
 get_wallet() (Character method), 21
 get_wallet_journal() (Character method), 21
 get_wallet_transactions() (Character method), 21
 get_wallets() (Corporation method), 24
 get_wallets_division_journal() (Corporation method), 24
 get_wallets_division_transactions() (Corporation method), 24
 get_wars() (Wars method), 64
 get_wars_war_id() (Wars method), 64
 get_wars_war_id_killmails() (Wars method), 64

I

Incursions (built-in class), 45
 Industry (built-in class), 45
 Insurance (built-in class), 47

K

Killmails (built-in class), 47

L

Location (built-in class), 48
 Loyalty (built-in class), 48

M

Mail (built-in class), 49

Market (built-in class), 51

O

Opportunities (built-in class), 53

P

Planetary Interaction (built-in class), 53
 post_characters_affiliation() (Character method), 31
 post_characters_character_id_assets_locations() (Assets method), 26
 post_characters_character_id_assets_names() (Assets method), 26
 post_characters_character_id_contacts() (Contacts method), 33
 post_characters_character_id_cspa() (Character method), 31
 post_characters_character_id_fittings() (Fittings method), 42
 post_characters_character_id_mail() (Mail method), 50
 post_characters_character_id_mail_labels() (Mail method), 50
 post_corporations_corporation_id_assets_locations() (Assets method), 26
 post_corporations_corporation_id_assets_names() (Assets method), 27
 post_fleets_fleet_id_members() (Fleets method), 43
 post_fleets_fleet_id_wings() (Fleets method), 44
 post_fleets_fleet_id_wings_wing_id_squads() (Fleets method), 44
 post_ui_autopilot_waypoint() (User Interface method), 61
 post_ui_openwindow_contract() (User Interface method), 62
 post_ui_openwindow_information() (User Interface method), 62
 post_ui_openwindow_marketdetails() (User Interface method), 62
 post_ui_openwindow_newmail() (User Interface method), 62
 post_universe_ids() (Universe method), 61
 post_universe_names() (Universe method), 61
 put_characters_character_id_calendar_event_id() (Calendar method), 28
 put_characters_character_id_contacts() (Contacts method), 33
 put_characters_character_id_mail_mail_id() (Mail method), 50
 put_fleets_fleet_id() (Fleets method), 44
 put_fleets_fleet_id_members_member_id() (Fleets method), 44
 put_fleets_fleet_id_squads_squad_id() (Fleets method), 44
 put_fleets_fleet_id_wings_wing_id() (Fleets method), 45

R

`request()` (`esy.client.ESIRequestsClient` method), [65](#)
`revoke_token()` (`esy.auth.ESIAAuthenticator` method), [66](#)
`Routes` (built-in class), [54](#)

S

`Search` (built-in class), [55](#)
`set_token()` (`Alliance` method), [25](#)
`set_token()` (`Character` method), [21](#)
`set_token()` (`Corporation` method), [24](#)
`Skills` (built-in class), [55](#)
`Sovereignty` (built-in class), [56](#)
`Status` (built-in class), [56](#)

U

`Universe` (built-in class), [57](#)
`User_Interface` (built-in class), [61](#)

V

`verify_access_token()` (`esy.auth.ESIAAuthenticator`
method), [66](#)
`verify_authorization_code()` (`esy.auth.ESIAAuthenticator`
method), [66](#)

W

`Wallet` (built-in class), [63](#)
`Wars` (built-in class), [64](#)