
Prometeo Python

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Prometeo

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The official python package for the [Prometeo API](#)

INSTALLATION

Install from PyPI using `pip`:

```
$ pip install prometeo
```


QUICK START

Go to your [dashboard](#), there you'll find your API key. Use it to instantiate the client:

```
from prometeo import Client  
  
client = Client('<YOUR_API_KEY>', environment='testing')
```

The environment argument is either `testing` for the sandbox or `production` for the production environment.

Note: [Contact us](#) to get an api key!

USAGE GUIDE

Guides for all the available services:

3.1 Banking API

3.1.1 Initialize the client

To initialize the client you'll need to provide your api key and the environment (either `testing` or `production`)

```
from prometeo import Client

client = Client('<YOUR_API_KEY>', environment='testing')
```

3.1.2 Log in

```
session = client.banking.login(
    provider='test',
    username='12345',
    password='gfdsa',
)
```

To get a list of available provider codes, use `get_providers()`

Beuase some banks require extra fields to log in, these must be provided inside `kwargs` as a dictionary. To see if a provider requires extra auth fields to log in, use `get_provider_detail()`

Example with extra auth fields:

```
session = client.banking.login(
    provider='bbva_mx',
    username='12345',
    password='gfdsa',
    otp=11223
)
```

The following is a table with all the extra auth fields and their respective providers.

Table 1: Extra Login fields

Field	Provider	Required	Description
otp	bbva_mx	True	One-time password
personal_question	banco_general, inter-matico	True	Personal question
token	banorte	True	Provider authorization token
company_code	pe_bbva_netcash	True	Company code
type	davivienda	False	Options - cedula_ciudadania: citizenship card - cedula_extranjeria: foreigner Identity card - nit NIT - tarjeta_identidad: identity card - pasaporte: passport - tarjeta_seguro_social_e: foreign Social Security card - sociedad_extranjera_sin: foreign company without NIT in Colombia - fideicomiso: fideicomiso - nit_menores: Minor NIT - rif_venezuela: RIF Venezuela - nit_extranjeria: Foreigners NIT - nit_persona_natural: Natural Person NIT - registro_civil_nacimiento: birth certificate

- nit_desasociado: disassociated NIT

3.1.3 Select client

In some banks a user can have access to more than one profile (called client), in those cases, the session status after login will be `select_client`. It is then necessary to select the client, for that, first list the available clients and pass one to `session.select_client`

```
if session.get_status() == 'select_client':
    clients = session.get_clients()
    session.select_client(clients[0])
    assert session.status == 'logged_in'
```

If the bank doesn't use multiple clients, calling `get_clients` will return an empty list.

3.1.4 Handling security questions and OTPs

In cases where the bank requires additional steps to login, such as answering a personal security question or using a 2FA device like an OTP (One Time Password), the status of the session will be set as `interaction_required`, which can be handled like this:

```
session = client.login(provider='test', username='user', password='pass')
if session.get_status() == 'interaction_required':
    # necessary context, like the security question to answer.
    print(session.get_interactive_context())
    session.finish_login(
        provider='test',
        username='user',
        password='pass',
        answer='1234',
    )
```

3.1.5 Restoring a session

In some cases it may be useful to serialize the session to be used later or to transfer to another process, like in a task queue job. For this use `get_session_key()` and `get_session()`:

```
session_key = session.get_session_key()

# save session_key somewhere...

restored_session = client.banking.get_session(session_key)
```

3.1.6 Listing accounts and movements

```
from datetime import datetime

accounts = session.get_accounts()
for account in accounts:
    movements = account.get_movements(
        datetime(2019, 2, 1), datetime(2019, 15, 1)
    )
```

For more detailed information, refer to the docs for `get_accounts()` and `get_movements()`

3.1.7 Listing credit cards and their movements

Credit cards can have movements in more than one currency, so it's necessary to specify it when listing movements.

```
from datetime import datetime

cards = session.get_credit_cards()
for card in cards:
    movements = card.get_movements(
        'USD', datetime(2019, 2, 1), datetime(2019, 15, 1)
    )
```

3.1.8 Listing available banks

We recommend that the list of available banks be stored on a database and updated weekly.

```
providers = client.banking.get_providers()
```

3.1.9 Preprocess transfer

```
preprocess = session.preprocess_transfer(
    origin_account='002206345988',
    destination_institution='0',
    destination_account='001002363321',
    currency='UYU',
    amount='1.3',
    concept='transfer description',
    destination_owner_name='John Doe',
    branch='62',
)

print(preprocess)
```

3.1.10 Confirm transfer

```
confirmation = session.confirm_transfer(
    request_id='0b7d6b32d1be4c11bde21e7ddc08cc36',
    authorization_type='cardCode',
    authorization_data='1, 2, 3',
)

print(confirmation)
```

3.1.11 List transfer institutions

```
institutions_list = session.list_transfer_institutions()
for institution in institutions_list:
    print(institution)
```

3.2 CURP API

3.2.1 Checking the existence of a curp

```
from prometeo import Client
from prometeo.curp import exceptions

client = Client('<YOUR_API_KEY>', environment='testing')
try:
    result = client.curp.query('ABCD12345EFGH')
except exceptions.CurpError as e:
    print("CURP does not exist:", e.message)
```

3.2.2 Looking for a CURP by personal info

```
from datetime import datetime
from prometeo.curp import exceptions, Gender, State

curp = 'ABCD12345EFGH'
state = State.SINALOA
birthdate = datetime(1988, 3, 4)
name = 'JOHN'
first_surname = 'DOE'
last_surname = 'PONCE'
gender = Gender.MALE
try:
    result = client.curp.reverse_query(
        state, birthdate, name, first_surname, last_surname, gender
    )
except exceptions.CurpError as e:
    print("CURP does not exist:", e.message)
```

Check the [reference](#) for a list of possible values for State

3.3 DIAN API

3.3.1 Log in

Initialize the client:

```
from prometeo import Client
from prometeo.dian import DocumentType

client = Client('<YOUR_API_KEY>', environment='testing')
```

Supply the NIT to log in as a company

```
session = client.dian.login(
    nit='098765',
    document_type=DocumentType.CEDULA_CIUADANIA,
    document='12345',
    password='test_password',
)
```

Or omit it to log in as a person:

```
session = client.dian.login(
    document_type=DocumentType.CEDULA_CIUADANIA,
    document='12345',
    password='test_password',
)
```

Check the [reference](#) for a list of possible values for `DocumentType`

3.3.2 Restoring a session

In some cases it may be useful to serialize the session to be used later or to transfer to another process, like in a task queue job. For this use `get_session_key()` and `get_session()`:

```
session_key = session.get_session_key()

# save session_key somewhere...

restored_session = client.dian.get_session(session_key)
```

3.3.3 Download the forms

To download the original forms in pdf format, use the `pdf` property of the object returned by the methods:

```
info = session.get_company_info()
pdf_content = info.pdf.get_content()
# write the contents to a file:
with open("company-info.pdf", "wb") as f:
    f.write(pdf_content)
```

3.3.4 Getting the data

Company info (form 001):

```
session.get_company_info()
```

Balances:

```
session.get_balances()
```

Rent declaration:

```
session.get_rent_declaration(2019)
```

VAT declaration:

```
from prometeo.dian import Periodicity, QuartlerlyPeriod

session.get_vat_declaration(2019, Periodicity.QUARTERLY, QuartlerlyPeriod.JANUARY_
    ↳APRIL)
```

Numeration:

```
from datetime import datetime
from prometeo.dian import NumerationType

session.get_numeration(
    NumerationType.Authorization,
    datetime(2019, 1, 1),
    datetime(2019, 5, 1)
)
```

Retentions:

```
from prometeo.dian import MonthlyPeriod

session.get_retentions(2019, MonthlyPeriod.NOVEMBER)
```

3.4 SAT API

3.4.1 Log in

```
from prometeo.sat import LoginScope

session = client.sat.login(
    rfc='ABCD1234EFGH',
    password='password',
    scope=LoginScope.CFDI,
)
```

3.4.2 Restoring a session

In some cases it may be useful to serialize the session to be used later or to transfer to another process, like in a task queue job. For this use `get_session_key()` and `get_session()`:

```
session_key = session.get_session_key()

# save session_key somewhere...

restored_session = client.sat.get_session(session_key)
```

3.4.3 Listing bills

To list emitted bills, supply a date range and the *BillStatus*

```
from prometeo.sat import BillStatus

emitted_bills = session.get_emitted_bills(
    date_start=datetime(2020, 1, 1),
    date_end=datetime(2020, 2, 1),
    status=BillStatus.ANY,
)
```

And for received bills, supply the year, month and the *BillStatus*

```
received_bills = session.get_received_bills(
    year=2020,
    month=1,
    status=BillStatus.ANY,
)
```

Check the documentation for *CFDIBill* to see a list of all fields available for a bill.

3.4.4 Downlading bills

```
import time
from prometeo.sat import BillStatus

download_requests = session.download_emitted_bills(
    date_start=datetime(2020, 1, 1),
    date_end=datetime(2020, 2, 1),
    status=BillStatus.ANY,
)
for request in download_requests:
    while not request.is_ready():
        time.sleep(5)
    download = request.get_download()
    content = download.get_file().read()
```

3.4.5 Download acknowledgements

```
from prometeo.sat import Motive, DocumentType, Status, SendType

acks = session.get_acknowledgement(
    year=2020,
    month_start=1,
    month_end=2,
    motive=Motive.ALL,
    document_type=DocumentType.ALL,
    status=Status.ALL,
    send_type=SendType.ALL,
)
for ack in acks:
    download = ack.download().get_file()
```

REFERENCE

4.1 Client Reference

A complete documentation of the prometeo module.

4.1.1 prometeo.banking

API Client

class prometeo.banking.client.**Account** (*client, session_key, account_data*)
A bank account, returned by *get_accounts()*

get_movements (*date_start, date_end*)
List an account's movements for a range of dates.

Parameters

- **date_start** (datetime) – Start of the date range for movements.
- **date_end** (datetime) – End of the date range for movements.

Return type List of *Movement*

class prometeo.banking.client.**BankingAPIClient** (*api_key, environment*)
API Client for banking api

confirm_transfer (*session_key, request_id, authorization_type, authorization_data*)
Confirm transfer.

Parameters

- **session_key** (*str*) – The session key.
- **request_id** (*str*) – Id of the request returned by the endpoint of *preprocess_transfer()*
- **authorization_type** (*str*) –
 - cardCode Coordinates card
 - pin Account personal pin
 - otp One-time generated pin, sent by sms, email, hard token or soft token.
 - otp-api Hard token or soft token device, digitized by Prometeo
- **authorization_data** (*str*) – Verification value (pin number, coordinates card response , etc) if there are several values, they must be separated by commas.

Return type *ConfirmTransfer*

get_provider_detail (*provider_code*)

Get more detailed information about a bank.

Parameters **provider_code** (*str*) – Name of the provider, as returned in *get_providers()*

Return type *ProviderDetail*

get_providers ()

List all available banks.

Return type *Provider*

list_transfer_institutions (*session_key*)

List transfer institutions.

Parameters **session_key** (*str*) – The session key.

Return type *TransferInstitution*

login (*provider, username, password, **kwargs*)

Start log in process with the provider

Parameters

- **provider** (*str*) – Name of the provider, use *get_providers()* to get a list of available providers
- **username** (*str*) – Username used to log in to the banking app or web
- **password** (*str*) – User's password
- **kwargs** (*dict*) – Extra login fields for providers that require it, use *get_provider_detail()* to get a list of all the auth login fields

Return type *Session*

logout (*session_key*)

Logs the user out and invalidates its session.

Parameters **session_key** (*str*) – The session key.

on_response (*data*)

Called after every 200 response

preprocess_transfer (*session_key, origin_account, destination_institution, destination_account, currency, amount, concept, destination_owner_name, branch*)

Preprocess transfer.

Parameters

- **session_key** (*str*) – The session key.
- **origin_account** (*str*) – Account number from where it is transferred
- **destination_institution** (*str*) – Id of the institution where it is transferred. As provided by *get_providers()*
- **destination_account** (*str*) – Account number where it is transferred
- **currency** (*str*) – Account currency in format ISO 4217
- **amount** (*str*) – Amount to transfer
- **concept** (*str*) – Concept or description of the transfer

- **destination_owner_name** (*str*) – Name of the holder of the destination account (empty if not applicable)
- **branch** (*str*) – Branch number of the destination account (empty if not applicable)

Return type *PreprocessTransfer*

session_class

alias of *Session*

class prometeo.banking.client.**CreditCard**(*client, session_key, card_data*)

A credit card, returned by *get_credit_cards()*

get_movements (*currency_code, date_start, date_end*)

List credit card's movements for a range of dates.

Parameters

- **date_start** (datetime) – Start of the date range for movements.
- **date_end** (datetime) – End of the date range for movements.

Return type List of *Movement*

class prometeo.banking.client.**Session**(*client, status, session_key, context=None, field=None*)

Encapsulates the user's session, returned by *login()*

confirm_transfer (*request_id, authorization_type, authorization_data*)

Confirm transfer.

Parameters

- **request_id** (*str*) – Id of the request returned by the endpoint of *preprocess_transfer()*
- **authorization_type** (*str*) –
 - cardCode Coordinates card
 - pin Account personal pin
 - otp One-time generated pin, sent by sms, email, hard token or soft token.
 - otp-api Hard token or soft token device, digitized by Promete
- **authorization_data** (*str*) – Verification value (pin number, coordinates card response , etc) if there are several values, they must be separated by commas.

Return type *ConfirmTransfer*

finish_login (*provider, username, password, answer*)

Answer the security challenge, like an OTP or personal question.

Parameters

- **provider** (*str*) – The provider used to login
- **username** (*str*) – The username used to login
- **password** (*str*) – The password used to login
- **answer** (*str*) – The answer to the login challenge

get_accounts ()

List all the user's accounts

Return type List of *Account*

get_clients()

List the user's clients. Returns an empty list if the bank doesn't uses clients.

Return type List of *Client*

get_credit_cards()

List all the user's credit cards

Return type List of *CreditCard*

get_interactive_context()

Necessary information to answer the login challenge, like a security question.

Return type str

list_transfer_institutions()

List transfer institutions.

Return type *TransferInstitution*

logout()

Logs the user out and invalidates its session.

preprocess_transfer(*origin_account*, *destination_institution*, *destination_account*, *currency*,
amount, *concept*, *destination_owner_name*, *branch*)

Preprocess transfer.

Parameters

- **origin_account** (*str*) – Account number from where it is transferred
- **destination_institution** (*str*) – Id of the institution where it is transferred. As provided by *get_providers()*
- **destination_account** (*str*) – Account number where it is transferred
- **currency** (*str*) – Account currency in format ISO 4217
- **amount** (*str*) – Amount to transfer
- **concept** (*str*) – Concept or description of the transfer
- **destination_owner_name** (*str*) – Name of the holder of the destination account (empty if not applicable)
- **branch** (*str*) – Branch number of the destination account (empty if not applicable)

Return type *PreprocessTransfer*

select_client(*client*)

Selects the client to use for this session.

Parameters **client_id** (*str*) – The id of the client, obtained from listing the clients

Models

```
class prometeo.banking.models.Account (id, name, number, branch, currency, balance)
```

```

property balance
    Alias for field number 5

property branch
    Alias for field number 3

property currency
    Alias for field number 4

property id
    Alias for field number 0

property name
    Alias for field number 1

property number
    Alias for field number 2

```

```
class prometeo.banking.models.Client (id, name)
```

```

property id
    Alias for field number 0

property name
    Alias for field number 1

```

```
class prometeo.banking.models.ConfirmTransfer (message, success)
```

```

property message
    Alias for field number 0

property success
    Alias for field number 1

```

```
class prometeo.banking.models.CreditCard (id, name, number, close_date, due_date, balance_local, balance_dollar)
```

```

property balance_dollar
    Alias for field number 6

property balance_local
    Alias for field number 5

property close_date
    Alias for field number 3

property due_date
    Alias for field number 4

property id
    Alias for field number 0

property name
    Alias for field number 1

property number
    Alias for field number 2

```

```
class prometeo.banking.models.Movement (id, reference, date, detail, debit, credit, extra_data)
```

```
    property credit  
        Alias for field number 5
```

```
    property date  
        Alias for field number 2
```

```
    property debit  
        Alias for field number 4
```

```
    property detail  
        Alias for field number 3
```

```
    property extra_data  
        Alias for field number 6
```

```
    property id  
        Alias for field number 0
```

```
    property reference  
        Alias for field number 1
```

```
class prometeo.banking.models.PreprocessTransfer (approved, authorization_devices,  
                                                message, request_id)
```

```
    property approved  
        Alias for field number 0
```

```
    property authorization_devices  
        Alias for field number 1
```

```
    property message  
        Alias for field number 2
```

```
    property request_id  
        Alias for field number 3
```

```
class prometeo.banking.models.Provider (code, country, name)
```

```
    property code  
        Alias for field number 0
```

```
    property country  
        Alias for field number 1
```

```
    property name  
        Alias for field number 2
```

```
class prometeo.banking.models.ProviderDetail (country, name, auth_fields)
```

```
    property auth_fields  
        Alias for field number 2
```

```
    property country  
        Alias for field number 0
```

```
    property name  
        Alias for field number 1
```

```
class prometeo.banking.models.TransferInstitution(id, name)

    property id
        Alias for field number 0

    property name
        Alias for field number 1
```

4.1.2 base

Base Client

```
class prometeo.base_client.BaseClient(api_key, environment)
    Base client class to make api calls

    call_api(method, url, *args, **kwargs)
        Calls an API endpoint, using the configured api key and environment.

        Parameters
            • method (str) – The HTTP method to use (GET, POST, etc)
            • url (str) – The url to call (without the environment's domain)

        Return type JSON data as a python object.

    get_session(session_key)
        Restore a session from its session key

        Parameters session_key (str) – The session key

        Return type Session

    on_response(response_data)
        Called after every 200 response

class prometeo.base_client.Download(client, url)
    Represents a downloadable file, like an xml bill or pdf document

    get_file()
        Downloads the file and returns its contents.

        Return type bytes
```

Base Session

```
class prometeo.base_session.BaseSession(client, status, session_key)
    Base class that handles calling the API endpoints that use session keys.

    get_session_key()
        Returns this session's session key

        Return type str

    get_status()
        Returns this session's status

        Return type str
```

4.1.3 prometeo.curp

API Client

class prometeo.curp.client.CurpAPIClient (*api_key, environment*)
API Client for CURP queries

query (*curp*)

Find the personal data associated with a CURP

Parameters **curp** (*str*) – The CURP of the person to query

Return type *QueryResult*

reverse_query (*state, birthdate, name, first_surname, last_surname, gender*)

Search for a person by their personal information.

Parameters

- **state** (*State*) – The state where the person is registered
- **birthdate** (*datetime*) – The person's birthdate
- **name** (*str*) – The person's name
- **first_surname** (*str*) – The person's first surname
- **last_surname** (*str*) – The person's last surname
- **gender** (*Gender*) – The person's gender

Return type *QueryResult*

Enums

class prometeo.curp.client.Gender
A person's gender

FEMALE = 'M'

MALE = 'H'

class prometeo.curp.client.State
The state a person is registered

AGUASCALIENTES = 'AS'

BAJA_CALIFORNIA = 'BC'

BAJA_CALIFORNIA_SUR = 'BS'

CAMPECHE = 'CC'

CHIAPAS = 'CS'

CHIHUAHUA = 'CH'

CIUDAD_DE_MEXICO = 'DF'

COAHUILA = 'CL'

COLIMA = 'CM'

DURANGO = 'DG'

ESTADO_DE_MEXICO = 'MC'

```

GUANAJUATO = 'GT'
GUERRERO = 'GR'
HIDALGO = 'HG'
JALISCO = 'JC'
MICHOACAN = 'MN'
MORELOS = 'MS'
NACIDO_EN_EL_EXTRANJERO = 'NE'
NAYARIT = 'NT'
NUEVO_LEON = 'NL'
OAXACA = 'OC'
PUEBLA = 'PL'
QUERETARO = 'QT'
QUINTANA_ROO = 'QR'
SAN_LUIS_POTOSI = 'SP'
SINALOA = 'SL'
SONORA = 'SR'
TABASCO = 'TC'
TAMAULIPAS = 'TS'
TLAXCALA = 'TL'
VERACRUZ = 'VZ'
YUCATAN = 'YN'
ZACATECA = 'ZS'

```

Models

```

class prometeo.curp.models.DocumentData(clave_entidad_registro, clave_municipio_registro,
                                         entidad_registro, tomo, foja, num_acta, munici-
                                         pio_registro, anio_reg, libro)

    property anio_reg
        Alias for field number 7

    property clave_entidad_registro
        Alias for field number 0

    property clave_municipio_registro
        Alias for field number 1

    property entidad_registro
        Alias for field number 2

    property foja
        Alias for field number 4

```

property libro
Alias for field number 8

property municipio_registro
Alias for field number 6

property num_acta
Alias for field number 5

property tomo
Alias for field number 3

`prometeo.curp.models.PersonalData`
alias of `prometeo.curp.models.DocumentData`

class `prometeo.curp.models.QueryResult` (*document_data, personal_data, pdf_url, pdf*)

property document_data
Alias for field number 0

property pdf
Alias for field number 3

property pdf_url
Alias for field number 2

property personal_data
Alias for field number 1

4.1.4 prometeo.dian

API Client

class `prometeo.dian.client.DianAPIClient` (*api_key, environment*)
API Client for DIAN API

login (*document_type, document, password, nit=None*)
Log in to DIAN

Parameters

- **document_type** (*DocumentType*) – The type of document for the document argument.
- **document** (*str*) – The document of the person
- **password** (*str*) – The password used to log in
- **nit** (*str*) – The NIT of the company (used only when logging in as a company)

Return type *Session*

session_class
alias of *Session*

class `prometeo.dian.client.Session` (*client, status, session_key*)

get_balances ()
Get balances.

Return type list of *Balance*

get_company_info()

Get information about the company or person (form 001).

Return type *CompanyInfo*

get_numeration(*type, date_start, date_end*)

Get bill numeration (form 1876)

Parameters

- **type** (*NumerationType*) – The type of numeration request to get
- **date_start** (datetime) – Start date to filter
- **date_end** (datetime) – End date to filter

Return type List of *Numeration*

get_rent_declaration(*year*)

Get rent declaration information (form 110 for companies and 210 for persons)

Parameters **year** (*int*) – Year of the declaration

Return type *RentDeclaration*

get_retentions(*year, period*)

Get retentions information (form 350)

Parameters

- **year** (*int*) – Year of the retention
- **period** (*int*) – Period of the retention

Return type List of *Retentions*

get_vat_declaration(*year, periodicity, period*)

Get VAT declaration information (form 300)

Parameters

- **year** (*int*) – Year of the declaration
- **periodicity** (*Periodicity*) – Periodicity, either quarterly or bimonthly
- **period** (*int*) – Period of the declaration

Return type *VATDeclaration*

Enums

class prometeo.dian.client.NumerationType

An enumeration.

Authorization = 'authorization'

Habilitation = 'habilitation'

Inhabilitation = 'inhabilitation'

class prometeo.dian.client.Periodicity

An enumeration.

BIMONTHLY = 'b'

QUARTERLY = 'q'

```
class prometeo.dian.client.QuarterlyPeriod
    An enumeration.

    JANUARY_APRIL = 1
    MAY_AUGUST = 2
    SEPTEMBER_DECEMBER = 3

class prometeo.dian.client.BimonthlyPeriod
    An enumeration.

    JANUARY_FEBRUARY = 1
    JULY_AUGUST = 4
    MARCH_APRIL = 2
    MAY_JUNE = 3
    NOVEMBER_DECEMBER = 6
    SEPTEMBER_OCTOBER = 5

class prometeo.dian.client.MonthlyPeriod
    An enumeration.

    APRIL = 4
    AUGUST = 8
    DECEMBER = 12
    FEBRUARY = 2
    JANUARY = 1
    JULY = 7
    JUNE = 6
    MARCH = 3
    MAY = 5
    NOVEMBER = 11
    OCTOBER = 10
    SEPTEMBER = 9

class prometeo.dian.client.DocumentType
    Document types used for DianAPIClient.login()

    CARNE_DIPLOMATICO = '46'
    CEDULA_CIUDADANIA = '13'
    CEDULA_EXTRANJERIA = '22'
    CERTIFICADO_REGISTRADURIA = '14'
    DOCUMENTO_IDENTIFICACION_EXTRANJERO = '42'
    DOCUMENTO_IDENTIFICACION_EXTRANJERO_PERSONA_JURIDICA = '44'
    PASAPORTE = '41'
    SIN_IDENTIFICACION_EXTRANJERO = '43'
```

```
TARJETA_EXTRANJERIA = '21'
```

```
TARJETA_IDENTIDAD = '12'
```

Models

```
class prometeo.dian.models.Accountant (document, start_date, name, professional_card)
```

```
    property document
```

```
        Alias for field number 0
```

```
    property name
```

```
        Alias for field number 2
```

```
    property professional_card
```

```
        Alias for field number 3
```

```
    property start_date
```

```
        Alias for field number 1
```

```
class prometeo.dian.models.Balance (type, amount, value)
```

```
    property amount
```

```
        Alias for field number 1
```

```
    property type
```

```
        Alias for field number 0
```

```
    property value
```

```
        Alias for field number 2
```

```
class prometeo.dian.models.CapitalComposition (national, national_private, national_public, foreign, foreign_private, foreign_public)
```

```
    property foreign
```

```
        Alias for field number 3
```

```
    property foreign_private
```

```
        Alias for field number 4
```

```
    property foreign_public
```

```
        Alias for field number 5
```

```
    property national
```

```
        Alias for field number 0
```

```
    property national_private
```

```
        Alias for field number 1
```

```
    property national_public
```

```
        Alias for field number 2
```

```
class prometeo.dian.models.CompanyInfo (accountant, capital_composition, reason, pdf_url, pdf, location, name, constitution_date, representation, members)
```

```
    property accountant
```

```
        Alias for field number 0
```

property capital_composition

Alias for field number 1

property constitution_date

Alias for field number 7

property location

Alias for field number 5

property members

Alias for field number 9

property name

Alias for field number 6

property pdf

Alias for field number 4

property pdf_url

Alias for field number 3

property reason

Alias for field number 2

property representation

Alias for field number 8

class prometeo.dian.models.**Field**(*name, number, value*)

property name

Alias for field number 0

property number

Alias for field number 1

property value

Alias for field number 2

class prometeo.dian.models.**Location**(*country, city, phone1, phone2, department, address, email*)

property address

Alias for field number 5

property city

Alias for field number 1

property country

Alias for field number 0

property department

Alias for field number 4

property email

Alias for field number 6

property phone1

Alias for field number 2

property phone2

Alias for field number 3

```
class prometeo.dian.models.Member (document_type, document, nationality, name, start_date)
```

```
    property document
```

```
        Alias for field number 1
```

```
    property document_type
```

```
        Alias for field number 0
```

```
    property name
```

```
        Alias for field number 3
```

```
    property nationality
```

```
        Alias for field number 2
```

```
    property start_date
```

```
        Alias for field number 4
```

```
class prometeo.dian.models.Name (first_surname, second_surname, first_name, other_names)
```

```
    property first_name
```

```
        Alias for field number 2
```

```
    property first_surname
```

```
        Alias for field number 0
```

```
    property other_names
```

```
        Alias for field number 3
```

```
    property second_surname
```

```
        Alias for field number 1
```

```
class prometeo.dian.models.Numeration (nit, dv, name, reason, address, country, department,  
                                         municipality, ranges, pdf_url, pdf_available)
```

```
    property address
```

```
        Alias for field number 4
```

```
    property country
```

```
        Alias for field number 5
```

```
    property department
```

```
        Alias for field number 6
```

```
    property dv
```

```
        Alias for field number 1
```

```
    property municipality
```

```
        Alias for field number 7
```

```
    property name
```

```
        Alias for field number 2
```

```
    property nit
```

```
        Alias for field number 0
```

```
    property pdf_available
```

```
        Alias for field number 10
```

```
    property pdf_url
```

```
        Alias for field number 9
```

property ranges

Alias for field number 8

property reason

Alias for field number 3

`prometeo.dian.models.NumerationRange`

alias of `prometeo.dian.models.Range`

class `prometeo.dian.models.RentDeclaration` (*pdf_url, pdf, fields, year, form_number, nit, dv, name, reason, direction_code, economic_activity, correction_code, previous_form*)

property correction_code

Alias for field number 11

property direction_code

Alias for field number 9

property dv

Alias for field number 6

property economic_activity

Alias for field number 10

property fields

Alias for field number 2

property form_number

Alias for field number 4

property name

Alias for field number 7

property nit

Alias for field number 5

property pdf

Alias for field number 1

property pdf_url

Alias for field number 0

property previous_form

Alias for field number 12

property reason

Alias for field number 8

property year

Alias for field number 3

class `prometeo.dian.models.Representative` (*document, document_type, name, representation_type, start_date*)

property document

Alias for field number 0

property document_type

Alias for field number 1

property name
Alias for field number 2

property representation_type
Alias for field number 3

property start_date
Alias for field number 4

```
class prometeo.dian.models.Retentions(pdf_url, pdf, fields, year, period, form_number, nit,  
                                     reason, direction_code)
```

property direction_code
Alias for field number 8

property fields
Alias for field number 2

property form_number
Alias for field number 5

property nit
Alias for field number 6

property pdf
Alias for field number 1

property pdf_url
Alias for field number 0

property period
Alias for field number 4

property reason
Alias for field number 7

property year
Alias for field number 3

```
class prometeo.dian.models.VATDeclaration(pdf_url, pdf, fields, year, period, form_number,  
                                          nit, dv, name, reason, direction_code, correc-  
                                          tion_code, previous_form)
```

property correction_code
Alias for field number 11

property direction_code
Alias for field number 10

property dv
Alias for field number 7

property fields
Alias for field number 2

property form_number
Alias for field number 5

property name
Alias for field number 8

property nit
Alias for field number 6

property pdf
Alias for field number 1

property pdf_url
Alias for field number 0

property period
Alias for field number 4

property previous_form
Alias for field number 12

property reason
Alias for field number 9

property year
Alias for field number 3

4.1.5 prometeo.sat

API Client

class `prometeo.sat.client.SatAPIClient` (*api_key, environment*)
API Client for SAT API

login (*rfc, password, scope*)
Log in to SAT

Parameters

- **rfc** (*str*) – RFC of the person to log in
- **password** (*str*) – Password used to login, also known as CIEC
- **scope** (*LoginScope*) – Depending on the type of information to query, use `LoginScope.CFDI` to download bill xmls or `LoginScope.SIAT` to download acknowledgements.

Return type *Session*

session_class
alias of *Session*

class `prometeo.sat.client.Session` (*client, status, session_key*)

download_emitted_bills (*date_start, date_end, status*)
Creates a request to download all the emitted bills in a range of dates.

Parameters

- **date_start** (*datetime*) – Start date to filter
- **date_end** (*datetime*) – End date to filter
- **status** (*BillStatus*) – Status of the bills

Return type List of *DownloadRequest*

download_received_bills (*year, month, status*)
Creates a request to download all the received bills in a range of dates.

Parameters

- **date_start** (datetime) – Start date to filter
- **date_end** (datetime) – End date to filter
- **status** (*BillStatus*) – Status of the bills

Return type List of *DownloadRequest*

get_acknowledgements (*year, month_start, month_end, motive, document_type, status, send_type*)
Gets a list of acknowledgements for a range of dates

Parameters

- **year** (*int*) – The year of the acknowledgements
- **month_start** (*int*) – Start month to filter
- **month_end** (*int*) – End month to filter
- **motive** (*Motive*) – Motive
- **document_type** (*DocumentType*) – Document type
- **status** (*Status*) – Status
- **send_type** (*SendType*) – Send type

Return type List of *AcknowledgementResult*

get_downloads ()
Gets a list of available downloads

Return type List of *DownloadRequest*

get_emitted_bills (*date_start, date_end, status*)
List all emitted bills in a range of dates.

Parameters

- **date_start** (datetime) – Start date to filter
- **date_end** (datetime) – End date to filter
- **status** (*BillStatus*) – Status of the bills

Return type List of *CFDIBill*

get_received_bills (*year, month, status*)
List all received bills in a range of dates.

Parameters

- **year** (*int*) – Year of the received bills
- **month** (*int*) – Month of the received bills
- **status** (*BillStatus*) – Status of the bills

Return type List of *CFDIBill*

logout ()
Logs out of SAT. You won't be able to use this session after logout.

class prometeo.sat.client.**AcknowledgementResult** (*client, session_key, data*)
Info on an acknowledgement, returned by *Session.get_acknowledgements* ()

get_download ()
Download the acknowledgement data

Return type Download

class prometeo.sat.client.DownloadRequest (*client, session_key, request_id*)
A request for bulk downloading of bills.

get_download()
Download the generated zip file with all the xmls

Return type Download

is_ready()
Check if the request is ready to download.

Return type bool

Enums

class prometeo.sat.client.LoginScope
An enumeration.

CFDI = 'cfdi'

SIAT = 'siat'

class prometeo.sat.client.BillStatus
An enumeration.

ANY = 'any'

CANCELLED = 'cancelled'

VALID = 'valid'

class prometeo.sat.client.Motive
An enumeration.

AF = 'af'

ALL = 'all'

CO = 'co'

DE = 'de'

FC = 'fc'

MONTHLY = 'monthly'

class prometeo.sat.client.DocumentType
An enumeration.

ALL = 'all'

B = 'b'

CT = 'ct'

PL = 'pl'

XC = 'xc'

XF = 'xf'

class prometeo.sat.client.Status
An enumeration.

ACCEPTED = 'accepted'

```

    ALL = 'all'
    RECEIVED = 'received'
    REJECTED = 'rejected'
class prometeo.sat.client.SendType
    An enumeration.
    ALL = 'all'
    C = 'c'
    N = 'n'

```

Models

```

class prometeo.sat.models.AcknowledgementResult(id, period, motive, document_type,
                                                send_type, file_name, reception_date,
                                                status)

    property document_type
        Alias for field number 3
    property file_name
        Alias for field number 5
    property id
        Alias for field number 0
    property motive
        Alias for field number 2
    property period
        Alias for field number 1
    property reception_date
        Alias for field number 6
    property send_type
        Alias for field number 4
    property status
        Alias for field number 7
class prometeo.sat.models.CFDIBill(id, emitter_rfc, emitter_reason, receiver_rfc, re-
                                   ceiver_reason, emitted_date, certification_date, certi-
                                   fication_pac, total_value, effect, status)

    property certification_date
        Alias for field number 6
    property certification_pac
        Alias for field number 7
    property effect
        Alias for field number 9
    property emitted_date
        Alias for field number 5
    property emitter_reason
        Alias for field number 2

```

property emitter_rfc

Alias for field number 1

property id

Alias for field number 0

property receiver_reason

Alias for field number 4

property receiver_rfc

Alias for field number 3

property status

Alias for field number 10

property total_value

Alias for field number 8

class prometeo.sat.models.CFDIDownloadItem(*request_id, type, count*)

property count

Alias for field number 2

property request_id

Alias for field number 0

property type

Alias for field number 1

class prometeo.sat.models.DownloadFile(*download_url*)

property download_url

Alias for field number 0

class prometeo.sat.models.DownloadRequest(*request_id*)

property request_id

Alias for field number 0

class prometeo.sat.models.PdfFile(*pdf_url*)

property pdf_url

Alias for field number 0

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