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# **Willow Labs Python API**

*Release 1.0*

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Willow labs APIs offers services to get information regarding companies and related entities. The main components are:

- Information about the owners of a company. This service provides owners at all levels, meaning it recursively goes through the ownership structure until a private owner is established.
- Basic company information as address, industry, number of employees and more.
- Signature rights and prokura holders for a company.
- Roles connected to the company, for example CEO, board members, accountant.

Service name	Description	Language	English version
get_basic_company_information	Basic information.	English	
get_company_ownership	Get the full ownership structure.	English	
get_company_power_of_attorney	Get everyone with power of attorney.	English	
*get_company_prokura	Get everyone with prokura rights (power of attorney).	Norwegian	get_company_power_of_attorney
get_company_full_signatory_authority	Get all signature holders.	English	
*get_company_signatur	Get all signatur (signature) holders.	Norwegian	get_company_signatory_information
get_company_signatory_information	Get the authority holder.	English	
get_company_roles	Get all roles connect to a company.	English	

\* The function is a Norwegian version of an english function - see english version column for information.



## INSTALLATION

```
pip install -U willowlabs
```





## EXAMPLE USAGE

```
from willowlabs.company_information.client import CompanyInformationClient
client = CompanyInformationClient("client_config.yaml")
company_basic_results = client.get_basic_company_information(organisation_number)
company_ownership_results = client.get_company_ownership(organisation_number, record_
↪year)
```



## CLIENT MODULE

```
class willowlabs.company_information.client.CompanyInformationClient (configuration_path:  
                                str,  
                                **kwargs:  
                                Any)
```

Bases: object

Class to access Willow Labs API.

```
__init__ (configuration_path: str, **kwargs: Any)  
    Initialize the client.
```

### Parameters

- **configuration\_path** – The path of the configuration file.
- **\*\*kwargs** – Extra arguments.

```
__weakref__  
    list of weak references to the object (if defined)
```

```
get_basic_company_information (*args, **kwargs) → wil-  
                                lowlabs.service_grpc.company_information.company_information_service_pb2.Bas  
Get the basic information for a company. May include address, industrikode (industry code), næringskode  
(business code).
```

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – Information retrieved will be the one valid at this date.

**Returns** The the basic information of the organization number given.

```
get_company_full_signatory_authority (*args, **kwargs) → wil-  
                                lowlabs.service_grpc.company_information.company_information_servic  
Get the signature holders for a company. Signature is the right to sign for the companies in all situations.  
Extension of prokura which is only for daily operations.
```

English version of `get_company_signatur()`.

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – The date to get the signature for.

**Returns** The signature holders.

```
get_company_ownership (*args, **kwargs) → willowlabs.service_grpc.company_information.company_information_serv  
Get owners for a company.
```

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **record\_year** – The ownership year.
- **depth** – Max depth of ownership structure returned.
- **cutoff** – Minimum percentage of ownership for inclusion in result.
- **top** – The number of max elements returned (The top N owners).

**Returns** The ownership structure.

**get\_company\_power\_of\_attorney** (\*args, \*\*kwargs) → wil-  
lowlabs.service\_grpc.company\_information.company\_information\_service\_pb2.Sig

Get the power of attorney (prokura) for the company. Power of attorney is the signature rights for all daily operations. See (in Norwegian): [Lovdata](#) or [Wikipedia](#).

English version of `get_company_prokura()`.

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – Information retrieved will be the one valid at this date.

**Returns** The list of all the the power of attorney rights.

**get\_company\_prokura** (\*args, \*\*kwargs) → willowlabs.service\_grpc.company\_information.company\_information\_service

Get the prokura rights for the company. Prokura is the signature rights for all daily operations. See: [Lovdata](#) or [Wikipedia](#).

Norwegian version of `get_company_power_of_attorney()`.

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – Information retrieved will be the one valid at this date.

**Returns** The list of all prokuras.

**get\_company\_roles** (\*args, \*\*kwargs) → willowlabs.service\_grpc.company\_information.company\_information\_service\_pb

Get the roles for a company.

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – Information retrieved will be the one valid at this date.

**Returns** The roles belonging to the given organization number.

**get\_company\_signatory\_information** (\*args, \*\*kwargs) → wil-  
lowlabs.service\_grpc.company\_information.company\_information\_service\_pb

Get the authority holders for the company for a given authority type.

### Parameters

- **organisation\_number** – The organization number for the company being queried.
- **authority\_type** – The authority type being requested.
- **query\_date** – Information retrieved will be the one valid at this date.

**Returns** The signature holders of the given organization number.

**get\_company\_signatur** (\*args, \*\*kwargs) → willowlabs.service\_grpc.company\_information.company\_information\_service  
Get the signature holders for a company. Signature is the right to sign for the companies in all situations.  
Extension of prokura which is only for daily operations.

Norwegian version of *get\_company\_full\_signatory\_authority()*.

**Parameters**

- **organisation\_number** – The organization number for the company being queried.
- **query\_date** – The date to get the signature for.

**Returns** The signature holders.

**get\_json\_web\_token** ()

Loads the web token into memory Uses impersonation of Willowlabs service account by currently signed in service account. This will enable the current service account to behave as if it was logged in as Willow Labs API service account. Billing for billable requests to gcloud will be billed to current service account.

**load\_configuration** ()

Loads the configuration into memory.

**load\_credentials** ()

Loads the credentials into memory.



## VERSIONS

Using Semantic Versioning 2.0.0.

### 4.1 [0.5.0] - 16.04.2020

#### 4.1.1 Added

- Readme file documentation.

### 4.2 [0.4.0] - 16.04.2020

#### 4.2.1 Added

- Change in import structure.

### 4.3 [0.3.0] - 15.04.2020

#### 4.3.1 Added

- New function to get roller

#### 4.3.2 Bugg fix

- Removed `__init__` import

## 4.4 [0.2.0] - 04.04.2020

First beta version: Basic functionality.



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