

SDK SPEC Manager API

March 3, 2021

1 SPEC Utils

sdks for SPEC, SA and third applications

1.1 Install

Can use:

```
pip install spec-utils
```

Or:

```
python -m pip install spec-utils
```

1.2 SPEC Manager API

1.2.1 Import module

```
[ ]: from spec_utils import specmanagerapi as smapi
```

Dev only *

```
[1]: import sys, os
import datetime
sys.path.append(os.path.join(os.getcwd(), '..', 'spec_utils'))
```

```
[99]: from importlib import reload
import specmanagerapi as smapi
reload(smapi)
```

```
[99]: <module 'specmanagerapi' from 'D:\\\\Documentos\\\\Programming\\\\Python\\\\spec\\\\sdks\\\\
notebooks\\\\..\\\\spec_utils\\\\specmanagerapi.py'>
```

1.2.2 Client settings

```
[115]: URL = 'http://localhost:5050/api/'
        USERNAME = 'Admin'
        PWD = 'spec'
```

1.2.3 Create a client

```
[101]: client = smapi.Client(url=URL, username=USERNAME, pwd=PWD)
       client.is_connected
```

```
[101]: True
```

1.2.4 Get Clockings

```
[124]: client.get_clockings(
        _type="contractor",
        _from=datetime.datetime(2018, 4, 1, 5, 6, 7),
        _to=datetime.datetime(2018, 4, 30, 23, 59, 59),
        fromHistory=True,
        employeeDetail=True,
        employeeData=[1, 2], # employee optional data
        pageSize=10
    )
```

```
[124]: {'ok': True,
       'error': None,
       'response': {'count': 320,
                    'pages': 32,
                    'clockings': [{'id': 72493,
                                   'employee': {'code': 774,
                                                'mat': '774',
                                                'card': '02812635',
                                                'centerCode': 'AR',
                                                'centerDesc': 'DEMO',
                                                'firstname': 'Diego Emiliano',
                                                'lastName': 'MORILLO',
                                                'dni': '26689122',
                                                'company': '',
                                                'optionalData': []},
                                   'type': 71,
                                   'card': '02812635',
                                   'tmp': '20180430030408',
                                   'result': 66,
                                   'offline': 0,
                                   'gl': 34,
                                   'reader': 66,
                                   'aux': '0000',
                                   'value': 0,
                                   'terminal': 23,
                                   'version': 0},
                                   {'id': 72494,
                                    'employee': {'code': 774,
```

```

    'mat': '774',
    'card': '02812635',
    'centerCode': 'AR',
    'centerDesc': 'DEMO',
    'firstname': 'Diego Emiliano',
    'lastName': 'MORILLO',
    'dni': '26689122',
    'company': '',
    'optionalData': [],
    'type': 71,
    'card': '02812635',
    'tmp': '20180430031111',
    'result': 66,
    'offline': 0,
    'gl': 34,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 23,
    'version': 0},
  {'id': 72496,
    'employee': {'code': 239,
      'mat': '239',
      'card': '02536953',
      'centerCode': 'AR',
      'centerDesc': 'DEMO',
      'firstname': 'Ignacio Matías',
      'lastName': 'CAMBLONG',
      'dni': '34318327',
      'company': '',
      'optionalData': []},
    'type': 71,
    'card': '02536953',
    'tmp': '20180430032139',
    'result': 66,
    'offline': 0,
    'gl': 18,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 11,
    'version': 0},
  {'id': 72497,
    'employee': {'code': 239,
      'mat': '239',
      'card': '02536953',
      'centerCode': 'AR',

```

```

    'centerDesc': 'DEMO',
    'firstname': 'Ignacio Matías',
    'lastName': 'CAMBLONG',
    'dni': '34318327',
    'company': '',
    'optionalData': [],
    'type': 71,
    'card': '02536953',
    'tmp': '20180430032141',
    'result': 66,
    'offline': 0,
    'gl': 18,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 11,
    'version': 0},
  {'id': 72498,
    'employee': {'code': 692,
      'mat': '00692',
      'card': '04922689',
      'centerCode': 'AR',
      'centerDesc': 'DEMO',
      'firstname': 'Diana Lorena',
      'lastName': 'FUENTES CEPEDA',
      'dni': '36900810',
      'company': '',
      'optionalData': []},
    'type': 71,
    'card': '04922689',
    'tmp': '20180430032945',
    'result': 66,
    'offline': 0,
    'gl': 51,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 35,
    'version': 0},
  {'id': 72499,
    'employee': {'code': 481,
      'mat': '00481',
      'card': '03737926',
      'centerCode': 'AR',
      'centerDesc': 'DEMO',
      'firstname': 'Jorge Norberto',
      'lastName': 'PISILLI',

```

```

'dni': '22630868',
'company': '',
'optionalData': [{ 'id': 1, 'value': 'prestamos' },
{ 'id': 2, 'value': 'global id' } ]],
'type': 71,
'card': '03737926',
'tmp': '20180430033607',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{ 'id': 72500,
'employee': { 'code': 481,
'mat': '00481',
'card': '03737926',
'centerCode': 'AR',
'centerDesc': 'DEMO',
'firstname': 'Jorge Norberto',
'lastName': 'PISILLI',
'dni': '22630868',
'company': '',
'optionalData': [{ 'id': 1, 'value': 'prestamos' },
{ 'id': 2, 'value': 'global id' } ]],
'type': 71,
'card': '03737926',
'tmp': '20180430033610',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{ 'id': 72501,
'employee': { 'code': 712,
'mat': '712',
'card': '04922630',
'centerCode': 'AR',
'centerDesc': 'DEMO',
'firstname': 'David Alberto',
'lastName': 'PICON',
'dni': '28706535',

```

```

    'company': '',
    'optionalData': [],
    'type': 71,
    'card': '04922630',
    'tmp': '20180430034244',
    'result': 66,
    'offline': 0,
    'gl': 34,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 23,
    'version': 0},
  {'id': 72502,
    'employee': {'code': 481,
      'mat': '00481',
      'card': '03737926',
      'centerCode': 'AR',
      'centerDesc': 'DEMO',
      'firstname': 'Jorge Norberto',
      'lastName': 'PISILLI',
      'dni': '22630868',
      'company': '',
      'optionalData': [{'id': 1, 'value': 'prestamos'},
        {'id': 2, 'value': 'global id'}]},
    'type': 71,
    'card': '03737926',
    'tmp': '20180430050704',
    'result': 66,
    'offline': 0,
    'gl': 49,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 34,
    'version': 0},
  {'id': 72503,
    'employee': {'code': 481,
      'mat': '00481',
      'card': '03737926',
      'centerCode': 'AR',
      'centerDesc': 'DEMO',
      'firstname': 'Jorge Norberto',
      'lastName': 'PISILLI',
      'dni': '22630868',
      'company': '',
      'optionalData': [{'id': 1, 'value': 'prestamos'},

```

```

        {'id': 2, 'value': 'global id'}}}],
    'type': 71,
    'card': '03737926',
    'tmp': '20180430050754',
    'result': 66,
    'offline': 0,
    'gl': 18,
    'reader': 66,
    'aux': '0000',
    'value': 0,
    'terminal': 11,
    'version': 0}}}]}}

```

1.2.5 Get Contractor Clockings with specific method

```

[122]: client.get_clockings_contractor(
        _from=datetime.datetime(2018, 4, 1, 5, 6, 7),
        _to=datetime.datetime(2018, 4, 30, 23, 59, 59),
        fromHistory=True,
        employeeDetail=False,
        pageSize=10
    )

```

```

[122]: {'ok': True,
        'error': None,
        'response': {'count': 320,
                     'pages': 32,
                     'clockings': [{'id': 72493,
                                     'employee': 774,
                                     'type': 71,
                                     'card': '02812635',
                                     'tmp': '20180430030408',
                                     'result': 66,
                                     'offline': 0,
                                     'gl': 34,
                                     'reader': 66,
                                     'aux': '0000',
                                     'value': 0,
                                     'terminal': 23,
                                     'version': 0},
                                    {'id': 72494,
                                     'employee': 774,
                                     'type': 71,
                                     'card': '02812635',
                                     'tmp': '20180430031111',
                                     'result': 66,
                                     'offline': 0,

```

```

'gl': 34,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 23,
'version': 0},
{'id': 72496,
'employee': 239,
'type': 71,
'card': '02536953',
'tmp': '20180430032139',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{'id': 72497,
'employee': 239,
'type': 71,
'card': '02536953',
'tmp': '20180430032141',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{'id': 72498,
'employee': 692,
'type': 71,
'card': '04922689',
'tmp': '20180430032945',
'result': 66,
'offline': 0,
'gl': 51,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 35,
'version': 0},
{'id': 72499,
'employee': 481,

```



```

'type': 71,
'card': '03737926',
'tmp': '20180430033607',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{'id': 72500,
'employee': 481,
'type': 71,
'card': '03737926',
'tmp': '20180430033610',
'result': 66,
'offline': 0,
'gl': 18,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 11,
'version': 0},
{'id': 72501,
'employee': 712,
'type': 71,
'card': '04922630',
'tmp': '20180430034244',
'result': 66,
'offline': 0,
'gl': 34,
'reader': 66,
'aux': '0000',
'value': 0,
'terminal': 23,
'version': 0},
{'id': 72502,
'employee': 481,
'type': 71,
'card': '03737926',
'tmp': '20180430050704',
'result': 66,
'offline': 0,
'gl': 49,
'reader': 66,
'aux': '0000',

```

```

        'value': 0,
        'terminal': 34,
        'version': 0},
    {'id': 72503,
     'employee': 481,
     'type': 71,
     'card': '03737926',
     'tmp': '20180430050754',
     'result': 66,
     'offline': 0,
     'gl': 18,
     'reader': 66,
     'aux': '0000',
     'value': 0,
     'terminal': 11,
     'version': 0}}}]}}

```

1.2.6 Import Employee

Centers prepare

```

[103]: centers=[{
        "center": "AR",
        "dueDate": datetime.date(2024, 12, 31)
    }, {
        "center": "150",
        "dueDate": datetime.date(2024, 12, 31)
    }]

```

Send data

```

[92]: client.post_employee(
        _type='encae',
        code=273,
        nif='204',
        ss='20-20420420-9',
        lastName='Doe',
        firstName='John',
        companyCode='spec',
        companyName='SPEC, SA',
        centers=centers
    )

```

```

[92]: {'ok': True, 'error': None, 'response': 'Datos importados correctamente.'}

```

Import ENCAE employee

```
[98]: client.post_employee_encae(
        code=273,
        nif='204',
        ss='20-20420420-9',
        lastName='Doe',
        firstName='John',
        companyCode='spec',
        companyName='SPEC, SA',
        centers=centers
    )
```

```
[98]: {'ok': True, 'error': None, 'response': 'Datos importados correctamente.'}
```

1.2.7 Import employees from list

Data prepare

```
[119]: ed1 = {
        "_type": 'encae',
        "code": 273,
        "nif": '204',
        "ss": '20-20420420-9',
        "lastName": 'Doe',
        "firstName": 'John',
        "companyCode": 'spec',
        "companyName": 'SPEC, SA',
        "centers": centers
    }
    ed2 = {
        "_type": 'encae',
        "code": 274,
        "nif": '205',
        "ss": '20-20420420-9',
        "lastName": 'Lucyk',
        "firstName": 'Lucas',
        "companyCode": 'spec',
        "companyName": 'SPEC, SA',
        "centers": centers
    }
```

Data send

```
[120]: client.post_employees(employeeData=[ed1, ed2])
```

```
[120]: {'ok': True, 'error': None, 'response': 'Datos importados correctamente.'}
```

```
[ ]:
```