8. The fxcmpy_order Class

This section introduces the fxcmpy_order class which is created by different operations.

```
In [1]:
```

```
import fxcmpy
import pandas as pd
import datetime as dt
con = fxcmpy.fxcmpy(config_file='fxcm.cfg')
```

The methods fxcmpy.create_entry_order(), fxcmpy.create_market_sell_order(), fxcmpy.create_market_buy_order() and fxcmpy.open_trade() return an instance of the fxcmpy_order class. Existing orders are stored in the attribute orders, canceled or executed orders are stored in the attribute old_orders, both as instance of the fxcmpy_order class.

8.1. Order Ids

```
In [2]:
```

The ids of existing orders are returned by con.get_order_ids():

```
In [3]:
```

```
order_ids = con.get_order_ids()
print(order_ids)
```

[404809369]

The last order id:

```
In [4]:
```

```
order_id = order_ids[-1]
```

fxcmpy.orders is a dict object with the order ids as keys and the order object as value.

```
In [5]:
```

```
con.orders
```

Out[5]:

```
{404809369: <fxcmpy_fxcmpy_order.fxcmpy_order at 0x7ff2d5a52240>}
```

8.2. Order Objects

To get an existing order object, one can use con.get_order().

```
In [6]:
```

```
order = con.get_order(order_id)
```

In [7]:

```
print(order)
```

```
accountId: 2815291
accountName: 02815291
amountK: 300
```

```
110
buy:
                  USD/JPY
currency:
currencyPoint:
                  27.2726
isBuy:
                  True
isELSOrder:
isEntryOrder:
                  True
isLimitOrder:
                  True
isNetQuantity:
                  False
isStopOrder:
                  False
limit:
                  112
limitPegBaseType: -1
limitRate:
                  112
ocoBulkId:
orderId:
                  404809369
range:
                  0
sell:
                  Waiting
status:
stop:
stopMove:
                  0
stopPegBaseType:
                 -1
stopRate:
                  2018-06-07 13:52:30.579000
time:
timeInForce:
                  GTC
                  LE
type:
```

8.3. Get and Set

The fxcmpy_order class has get methods for all attributes, for example:

order.set_stop_rate(108, is_in_pips=False)

In [14]:

con.get_orders().T

```
In [8]:
order.get_amount()
Out[8]:
300
In [9]:
order.get_isBuy()
Out[9]:
True
In [10]:
order.get_sell()
Out[10]:
Moreover, the class has set methods for the following attributes:
 • amount: set_amount()
 • limit: set_limit_rate()
 range: set_range()
 • rate: set_rate()
 stop: set_stop_rate()
 • trailing_step: set_trailing_step()
In [11]:
order.set_amount(600)
In [13]:
```

```
Out[14]:
                                   0
\operatorname{accountId}
                  2815291
accountName
                  02815291
amountK
                  600
buy
                  110
                  USD/JPY
currency
currencyPoint
                  54.5303
expireDate
isBuy
                  True
isELSOrder
                  False
isEntryOrder
                  True
isLimitOrder
                  True
                  False
\verb"isNetQuantity"
isStopOrder
                  False
limit
limitPegBaseType -1
limitRate
                  112
ocoBulkId
                  404809369
orderId
range
ratePrecision
                  3
sell
                  0
status
                  1
stop
                  108
stopMove
                  0
stopPegBaseType -1
stopRate
                  108
t
                  3
time
                  06072018135425810
timeInForce
```

tradeId

178168067

LE type

8.4. Status and Deletion

A fxcmpy_order object has its own delete method.

```
In [15]:
order.get_status()
Out[15]:
'Waiting'
In [16]:
order.delete()
In [17]:
order.get_status()
Out[17]:
```

8.5. Canceled Orders

The canceled order can still be found in the old_orders attribute.

In [18]:

'Canceled'

```
con.old_orders

Out[18]:
{404809369: <fxcmpy.fxcmpy_order.fxcmpy_order at 0x7ff2d5a52240>,
    404809502: <fxcmpy.fxcmpy_order.fxcmpy_order at 0x7ff2d5a52ac8>}

In [19]:
con.close()
```