



com.dropoff.service.brawndo.client.python

This is the 3rd party dropoff Python client for creating and viewing orders.

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Using and configuring the client

Instantiate and configure an instance of ApiV1 in order to start making calls to brawndo.

```
import datetime
import time
import json

import ApiV1

# class ApiV1:
# def __init__(self, api_url, base_path, host, private_key, public_key):

api = ApiV1.ApiV1(
    'sandbox-brawndo.dropoff.com',
    '/v1',
    'sandbox-brawndo.dropoff.com',
    'fcb60b8680d7b5c67921a852b39067a19d85318ce8abf4c512',
    'ced2eaf24f1eaf832c1ea92b41386b4a5982cfcdb69b7c7818')
```

- **api_url** - the url of the brawndo api. This field is required.
- **base_path** - the base path of the api. This field is required.
- **host** - the api host. This field is required.
- **public_key** - the public key of the user that will be using the client. This field is required.
- **private_key** - the private key of the user that will be using the client.

Getting Your Client Information

If you want to know your client id and name you can access this information via the info call.

If you are an enterprise client user, then this call will return all of the accounts that you are allowed to manage with your current account.

```
info = json.loads(api.info())
```

Note that the Python client uses the built-in json (import json).

A response will look like this:

```
{
  success: true
  timestamp: "2017-01-25T16:51:36Z",
  data: {
    client: {
      company_name: "EnterpriseCo Global",
      id: "1111111111110"
    },
    user: {
      first_name: "Algis",
      last_name: "Woss",
      id: "2222222222222"
    },
    managed_clients: {
      level: 0,
      company_name: "EnterpriseCo Global",
      id: "1111111111110"
      children : [
        {
          level: 1,
          company_name: "EnterpriseCo Europe",
          id: "1111111111112"
          children : [
            {
              level: 2,
              company_name: "EnterpriseCo Paris",
              id: "1111111111111"
              children : []
            },
            {
              level: 2,
              company_name: "EnterpriseCo London",
              id: "1111111111113"
              children : []
            },
            {
              level: 2,
              company_name: "EnterpriseCo Milan",
              id: "1111111111114"
              children : []
            }
          ]
        }
      ]
    }
  }
}
```


In the above info example you see that keys for a user in an enterprise client are being used. It has clients that can be managed as it's descendants.

The hierarchy looks something like this:

```
EnterpriseCo Global (1111111111110)
├─ EnterpriseCo Europe (111111111112)
│   ├─ EnterpriseCo Paris (111111111111)
│   ├─ EnterpriseCo London (111111111113)
│   └─ EnterpriseCo Milan (111111111114)
└─ EnterpriseCo NA (111111111115)
    ├─ EnterpriseCo Chicago (111111111116)
    ├─ EnterpriseCo New York (111111111117)
    └─ EnterpriseCo Los Angeles (111111111118)
```

Let's say I was using keys for a user in **EnterpriseCo Europe**, then the returned hierarchy would be:

```
EnterpriseCo Europe (111111111112)
├─ EnterpriseCo Paris (111111111111)
├─ EnterpriseCo London (111111111113)
└─ EnterpriseCo Milan (111111111114)
```

Note that You can no longer see the **EnterpriseCo Global** ancestor and anything descending and including **EnterpriseCo NA**.

So what does it mean to manage an enterprise client? This means that you can:

- Get estimates for that client.
- Place an order for that client.
- Cancel an order for that client.
- View existing orders placed for that client.
- Create, update, and delete tips for orders placed for that client.

All you have to do is specify the id of the client that you want to act on. So if wanted to place orders for **EnterpriseCo Paris** I would make sure to include that clients id: "111111111111".

The following api documentation will show how to do this.

Order Properties

Depending on your client, you may have the option to add properties to your order. In order to determine whether or not your client has properties, you can call the **availableProperties** method. It will return all the

properties that can be applied to your orders during creation.

```
#company_id is optional
company_id = info['data']['client']['id']
available_properties_params = {'company_id': company_id}
properties = json.loads(api.order.available_properties(available_properties_params))
```

If you include a **company_id** you will retrieve that company's properties only if your account credentials are managing that account.

An example of a successful response will look like this:

```

{
  "data": [
    {
      "id": 1,
      "label": "Leave at Door",
      "description": "If recipient is not at home or at office, leave order at the door.",
      "price_adjustment": 0,
      "conflicts": [
        2
      ],
      "requires": []
    },
    {
      "id": 2,
      "label": "Signature Required",
      "description": "Signature is required for this order.",
      "price_adjustment": 0,
      "conflicts": [
        1
      ],
      "requires": []
    },
    {
      "id": 3,
      "label": "Legal Filing",
      "description": "This order is a legal filing at the court house. Please read order remarks carefully.",
      "price_adjustment": 5.50,
      "conflicts": [],
      "requires": [
        2
      ]
    }
  ],
  "count": 3,
  "total": 3,
  "success": true
}

```

- **id** - the id of the property, you will use this value if you want to add the property to an order you are creating
- **label** - a simple description of the property.
- **description** - more details about the property.

- **price_adjustment** - a number that describes any additional charges that the property will require.
- **conflicts** - an array of other property ids that cannot be included in an order when this property is set. In the above response you cannot set both "Leave at Door" and "Signature Required".
- **requires** - an array of other property ids that must be included in an order when this property is set. In the above response, when "Legal Filing" is set on an order, then "Signature Required" should be set as well.

Getting Available Order Items

An order can be created with order line items such as quantity, or temperature. To use a line item, the line item must be enabled for your account. To see which order line items are available for your account, use the **Available Items** function. Order line item constants are in Order.py.

```
#company_id is optional
company_available_items = json.loads(api.order.available_items({'company_id': info['data']['client']['id']}))
print company_available_items
```

An example of a successful response will look like this:

```
{
  "data": {
    "order_item_allow_sku": 2,
    "company_id": "7df2b0bdb418157609c0d5766fb7fb12",
    "order_item_allow_weight": 2,
    "order_item_enabled": 2,
    "order_item_allow_person_name": 2,
    "order_item_allow_quantity": 2,
    "order_item_allow_description": 2,
    "order_item_person_name_label": "Recipient",
    "order_item_allow_dimensions": 2,
    "order_item_allow_container": 2,
    "order_item_temp_unit": "F",
    "order_item_allow_price": 2,
    "order_item_allow_temperature": 1
  },
  "success": true,
  "timestamp": "2018-12-20T16:38:23Z"
}
```

- **0** - the order item type is disabled
- **1** - the order item type is optional
- **2** - the order item type is enabled

Getting Pricing Estimates

Before you place an order you will first want to estimate the distance, eta, and cost for the delivery. The client provides an **Estimate** function for this operation.

```
utc_offset = time.strftime('%z')
t = datetime.datetime.now()
tomorrow10Am = t.replace(hour=10, minute=0, second=0) + datetime.timedelta(days=1)
estimate_params = {
    'origin': '117 San Jacinto Blvd, Austin, TX 78701',
    'destination': '901 S MoPac Expy, Austin, TX 78746',
    'utc_offset': utc_offset,
    'ready_timestamp': tomorrow10Am.strftime('%s')}

estimate = json.loads(api.order.estimate(estimate_params))
```

- **origin** - the origin (aka the pickup location) of the order. Required.
- **destination** - the destination (aka the delivery location) of the order. Required.
- **utc_offset** - the utc offset of the timezone where the order is taking place. Required.
- **ready_timestamp** - the unix timestamp (in seconds) representing when the order is ready to be picked up. If not set we assume immediate availability for pickup.
- **company_id** - if you are using brawndo as an enterprise client that manages other dropoff clients you can specify the managed client id who's estimate you want here. This is optional and only works for enterprise clients.

An example of a successful response will look like this:

```

{
  success : true,
  timestamp: '2015-03-05T14:51:14+00:00',
  data : {
    ETA: '243.1',
    Distance: '0.62',
    From: '78701',
    To: '78701',
    asap: {
      Price: '19.00',
      ETA: '243.1',
      Distance: '0.62'
    },
    two_hr: {
      Price: '17.00',
      ETA: '243.1',
      Distance: '0.62'
    },
    four_hr: {
      Price: '15.00',
      ETA: '243.1',
      Distance: '0.62'
    },
    all_day: {
      Price: '13.00',
      ETA: '243.1',
      Distance: '0.62'
    }
  }
  service_type : 'standard'
}

```

- **data** - contain the pricing information for the allowed delivery window based on the given ready time, so you will not always see every option.
- **Distance** - the distance from the origin to the destination.
- **ETA** - the estimated time (in seconds) it will take to go from the origin to the destination.
- **From** - the origin zip code. Only available if you have a zip to zip rate card configured.
- **To** - the destination zip code. Only available if you have a zip to zip rate card configured.
- **asap** - the pricing for an order that needs to be delivered within an hour of the ready time.
- **two_hr** - the pricing for an order that needs to be delivered within two hours of the ready time.
- **four_hr** - the pricing for an order that needs to be delivered within four hours of the ready time.
- **all_day** - the pricing for an order that needs to be delivered by end of business on a weekday.
- **service_type** - The service type for pricing, could be standard, holiday, or after_hr.

Placing an order

Given a successful estimate call, and a time window that you like, an order can be placed. An order requires origin information, destination information, and specifics about the order.

Origin and Destination data.

The origin and destination contain information regarding the addresses in the order.

```
origin_params = {
    'company_name': "Gus's Fried Chicken",
    'first_name': 'Napoleon',
    'last_name': 'Bonner',
    'address_line_1': '117 San Jacinto Blvd',
    'address_line_2': '',
    'city': 'Austin',
    'state': 'TX',
    'zip': '78701',
    'phone': '5125555555',
    'email': 'cluckcluck@gusfriedchicken.com',
    'lat': 30.263706,
    'lng': -97.741703,
    'remarks': 'Origin Remarks'}

destination_params = {
    'company_name': 'Dropoff',
    'first_name': 'Jason',
    'last_name': 'Kastner',
    'address_line_1': '901 S MoPac Expy',
    'address_line_2': '#150',
    'city': 'Austin',
    'state': 'TX',
    'zip': '78746',
    'phone': '512-555-5555',
    'email': 'jkastner+python+dropoff@dropoff.com',
    'lat': 30.264573,
    'lng': -97.782073,
    'remarks': 'Please use the front entrance. The back one is guarded by cats!'}
```

- **address_line_1** - the street information for the origin or destination. Required.
- **address_line_2** - additional information for the address for the origin or destination (ie suite number). Optional.
- **company_name** - the name of the business for the origin or destination. Required.

- **first_name** - the first name of the contact at the origin or destination. Required.
- **last_name** - the last name of the contact at the origin or destination. Required.
- **phone** - the contact number at the origin or destination. Required.
- **email** - the email address for the origin or destination. Required.
- **city** - the city for the origin or destination. Required.
- **state** - the state for the origin or destination. Required.
- **zip** - the zip code for the origin or destination. Required.
- **lat** - the latitude for the origin or destination. Required.
- **lng** - the longitude for the origin or destination. Required.
- **remarks** - additional instructions for the origin or destination. Optional.

Order details data.

The details contain attributes about the order

```
distance = estimate['data']['Distance']
eta = estimate['data']['ETA']
price = estimate['data']['two_hr']['Price']
details_params = {
    'ready_date': tomorrow10Am.strftime('%s'),
    'type': 'two_hr',
    'quantity': 10,
    'weight': 20,
    'distance': distance,
    'eta': eta,
    'price': price}
```

- **quantity** - the number of packages in the order. Required.
- **weight** - the weight of the packages in the order. **A heavier order could be subject to a price adjustment.** Required.
- **eta** - the eta from the origin to the destination. Should use the value retrieved in the getEstimate call. Required.
- **distance** - the distance from the origin to the destination. Should use the value retrieved in the getEstimate call. Required.
- **price** - the price for the order. Should use the value retrieved in the getEstimate call. Required.
- **ready_date** - the unix timestamp (seconds) indicating when the order can be picked up. Can be up to 60 days into the future. Required.
- **type** - the order window. Can be *asap*, *twohr*, *fourhr*, *afterhr*, or *holiday depending on the readydate*. Required.
- **reference_name** - a field for your internal referencing. Optional.
- **reference_code** - a field for your internal referencing. Optional.

Order properties data.

The properties section is an array of [property ids](#) to add to the order

```
order_props = [2, 3]
create_params['properties'] = order_props
```

This is an optional piece of data.

Order items data.

The order items section is an array of [items](#) to add to the order.

```
order_items = [
    {"sku": "123456123456",
     "container": Order.CONTAINER_BAG,
     "weight": 5,
     "person_name": "John Locke",
     "quantity": 2,
     "description": "this order is very important",
     "unit": "ft",
     "height": 4,
     "width": 4,
     "depth": 5,
     "price": "10.55",
     "temperature": TEMP_NA},

    {"sku": "1234561523456",
     "container": "Order.CONTAINER_BOX",
     "weight": 5,
     "person_name": "John Locke",
     "quantity": 2,
     "description": "this order is more important than the last one",
     "unit": "ft",
     "height": 4,
     "width": 4,
     "depth": 5,
     "price": "10.55",
     "temperature": Order.TEMP_FROZEN},

]
create_params['items'] = order_items
```

This is an optional piece of data.

Once this data is created, you can create the order.

```
create_params = {
    'origin': origin_params,
    'destination': destination_params,
    'details': details_params}

order_create = json.loads(api.order.create(create_params))
```

Note that if you want to create this order on behalf of a managed client as an enterprise client user you will need to specify the company_id.

```
create_params = {
    'origin': origin_params,
    'destination': destination_params,
    'details': details_params,
    'company_id': '111111111111'}

order_create = json.loads(api.order.create(create_params))
```

The data in the callback will contain the id of the new order as well as the url where you can track the order progress.

```
created_order_id = order_create['data']['order_id']
created_order_url = order_create['data']['url']
```

Cancelling an order

```
order_cancel_params = {
    'order_id': created_order_id}

cancel = json.loads(api.order.cancel(order_cancel_params))
```

If you are trying to cancel an order for a managed client order as an enterprise client user, include the company_id in the argument parameters

```
order_cancel_params = {
    'order_id': created_order_id,
    'company_id': '111111111111'}

cancel = json.loads(api.order.cancel(order_cancel_params))
```

- **order_id** - the id of the order to cancel.
- **company_id** - if you are using brawndo as an enterprise client that manages other dropoff clients you can specify the managed client id who you would like to cancel an order for. This is optional and only works for enterprise clients.

An order can be cancelled in these situations

- The order was placed less than **ten minutes** ago.
- The order ready time is more than **one hour** away.
- The order has not been picked up.
- The order has not been cancelled.

An example of a succesful cancel result is:

```
{
  "success": true,
  "timestamp": "2017-06-06T13:15:32Z"
}
```

Getting a specific order

```
order_get_params = {
  'order_id': '06ex-r3zV-BMb'}

order = json.loads(api.order.get(order_get_params))
```

Example response

```
{
  data: {
    destination: {
      order_id: 'ac156e24a24484a382f66b8cadf6fa83',
      short_id: '06ex-r3zV-BMb',
      createdate: 1425653646,
      updatedate: 1425653646,
      order_status_code: 0,
      company_name: 'Dropoff',
      first_name: 'Jason',
      last_name: 'Kastner',
      address_line_1: '901 S MoPac Expy',
      address_line_2: '#150',
      city: 'Austin',
```

```
    state: 'TX',
    zip: '78746',
    phone_number: '512-555-5555',
    email_address: 'jkastner+java+dropoff@dropoff.com',
    lng: -97.782073,
    lat: 30.264573
  },
  details: {
    order_id: 'ac156e24a24484a382f66b8cadf6fa83',
    short_id: '06ex-r3zV-BMb',
    createdate: 1425653646,
    customer_name: 'Jason Kastner',
    type: 'ASAP',
    market: 'austin',
    timezone: 'America/Chicago',
    price: '15.00',
    signed: 'false',
    distance: '0.62',
    order_status_code: 0,
    wait_time: 0,
    order_status_name: 'Submitted',
    pickupETA: 'TBD',
    deliveryETA: '243.1',
    signature_exists: 'NO',
    quantity: 10,
    weight: 20,
    readyforpickupdate: 1425578400,
    updatedate: 1425653646
  },
  origin: {
    order_id: 'ac156e24a24484a382f66b8cadf6fa83',
    short_id: '06ex-r3zV-BMb',
    createdate: 1425653646,
    updatedate: 1425653646,
    order_status_code: 0,
    company_name: 'Gus's Fried Chicken',
    first_name: 'Napoleon',
    last_name: 'Bonner',
    address_line_1: '117 San Jacinto Blvd',
    city: 'Austin',
    state: 'TX',
    zip: '78701',
    phone_number: '5124744877',
    email_address: 'orders@gussfriedchicken.com',
    lng: -97.741703,
```



```

        lat: 30.263706,
        market: 'austin',
        remarks: 'Be nice to napoleon'
    },
    items: [
        {
            "container": 200,
            "quantity": 2,
            "weight": 5,
            "description": "this order is very important",
            "createdate": 1545410919,
            "person_name": "John Locke",
            "order_item_id": "46b30a26358dfd799ae764c90850ccfc",
            "unit": "ft",
            "depth": 5,
            "updatedate": 1545410919,
            "price": 10.55,
            "temperature": 0,
            "width": 4,
            "sku": "123456123456",
            "order_id": "7826566d9d16095e79c019c389c667b6",
            "height": 4
        }
    ],

},
success: true,
timestamp: '2015-03-09T18:42:15+00:00'
}

```

Getting a page of orders

Get the first page of orders

```

order_get_params = {}
page = json.loads(api.order.get(order_get_params))

```

Get a page of orders after the last_key from a previous response

```
if 'last_key' in page:
    order_get_params = {
        'last_key': page['last_key']}

page = json.loads(api.order.get(order_get_params))
```

Get the first page of orders as an enterprise client user for a managed client

```
order_get_params = {
    'company_id': '111111111111'}

page = json.loads(api.order.get(order_get_params))
```

Get a page of orders after the last_key from a previous response as an enterprise client user for a managed client

```
if 'last_key' in page:
    order_get_params = {
        'last_key': page['last_key'],
        'company_id': '111111111111'}

page = json.loads(api.order.get(order_get_params))
```

Example response

```
{
  data: [ ... ],
  count: 10,
  total: 248,
  last_key: 'zhjklzvxfshjklafdsknvjklfadjlhafdsjlkavdnjlvadslnjkdas',
  success: true,
  timestamp: '2015-03-09T18:42:15+00:00'
}
```

Signature Image URL

Some orders will contain signatures. If you want to get a url to an image of the signature you can call the **GetSignature** method. Note that the signature may not always exist, for example when the delivery was left at the door of the destination.

```
order_get_params = {'order_id': '01de44f7a46be2d6cda526dda87742a0'}
signature = json.loads(api.order.signature(order_get_params))
```

Example Response

```
{
    success: true,
    url: https://s3.amazonaws.com/...
}
```

The signature url is configured with an expiration time of 5 minutes after the request for the resource was made

Tips

You can create, delete, and read tips for individual orders. Please note that tips can only be created or deleted for orders that were delivered within the current billing period. Tips are paid out to our agents and will appear as an order adjustment charge on your invoice after the current billing period has expired. Tip amounts must not be zero or negative. You are limited to one tip per order.

Creating a tip

Tip creation requires two parameters, the order id (**order_id**) and the tip amount (**amount**).

```
tip_params = {
    'order_id': created_order_id,
    'amount': 4.44}

tip = json.loads(api.order.tip.create(tip_params))
```

Deleting a tip

Tip deletion only requires the order id (**order_id**).

```
tip_params = {
    'order_id': created_order_id}

tip = json.loads(api.order.tip.delete(tip_params))
```

If you are trying to delete a tip on a managed client order as an enterprise client user, include the `company_id`

in the argument parameters

```
tip_params = {
    'order_id': created_order_id,
    'company_id': '111111111111'}

tip = json.loads(api.order.tip.delete(tip_params))
```

Reading a tip

Tip reading only requires the order id (**order_id**).

```
tip_params = {
    'order_id': created_order_id}

tip = json.loads(api.order.tip.get(tip_params))
```

If you are trying to read a tip on a manage client order as an enterprise client user, include the `company_id` in the argument parameters

```
tip_params = {
    'order_id': created_order_id,
    'company_id': '111111111111'}

tip = json.loads(api.order.tip.get(tip_params))
```

Example response:

```
{
  amount: "4.44"
  createdate: "2016-02-18T16:46:52+00:00"
  description: "Tip added by Dropoff(Jason Kastner)"
  updatedate: "2016-02-18T16:46:52+00:00"
}
```

Webhooks

You may register a server route with Dropoff to receive real time updates related to your orders.

Your endpoint must handle a post, and should verify the X-Dropoff-Key with the client key given to you when registering the endpoint.

The body of the post should be signed using the HMAC-SHA-512 hashing algorithm combined with the client secret give to you when registering the endpoint.

The format of a post from Dropoff will be:

```
{
  count : 2,
  data : [ ]
}
```

- **count** contains the number of items in the data array.
- **data** is an array of events regarding orders and agents processing those orders.

Backoff algorithm

If your endpoint is unavailable Dropoff will try to resend the events in this manner:

- Retry 1 after 10 seconds
- Retry 2 after twenty seconds
- Retry 3 after thirty seconds
- Retry 4 after one minute
- Retry 5 after five minutes
- Retry 6 after ten minutes
- Retry 7 after fifteen minutes
- Retry 8 after twenty minutes
- Retry 9 after thirty minutes
- Retry 10 after forty five minutes
- All subsequent retries will be after one hour until 24 hours have passed

If all retries have failed then the cached events will be forever gone from this plane of existence.

Events

There are two types of events that your webhook will receive, order update events and agent location events.

All events follow this structure:

```
{
  event_name : <the name of the event ORDER_UPDATED or AGENT_LOCATION>
  data : { ... }
}
```

- **event_name** is either **ORDER_UPDATED** or **AGENT_LOCATION**
- **data** contains the event specific information

Order Update Event

This event will be triggered when the order is either:

- Accepted by an agent.
- Picked up by an agent.
- Delivered by an agent.
- Cancelled.

This is an example of an order update event

```
{
  event_name: 'ORDER_UPDATED',
  data: {
    order_status_code: 1000,
    company_id: '7df2b0bdb418157609c0d5766fb7fb12',
    timestamp: '2015-05-15T12:52:55+00:00',
    order_id: 'klAb-zwm8-mYz',
    agent_id: 'b7aa983243ccbfa43410888dd205c298'
  }
}
```

- **orderstatuscode** can be -1000 (cancelled), 1000 (accepted), 2000 (picked up), or 3000 (delivered)
- **company_id** is your company id.
- **timestamp** is a utc timestamp of when the order occurred.
- **order_id** is the id of the order.
- **agent_id** is the id of the agent that is carrying out your order.

Agent Location Update Event

This event is triggered when the location of an agent that is carrying out your order has changed.

```
{
  event_name: 'AGENT_LOCATION',
  data: {
    agent_avatar: 'https://s3.amazonaws.com/com.dropoff.alpha.app.workerphoto/b7aa983243ccbfa43410888dd205c298/worker_photo.png?AWSAccessKeyId=AKIAJN2ULWKTZXXEQDA&Expires=1431695270&Signature=AFKNQdT33lh1EddrGp0kINAR4uw%3D',
    latitude: 30.2640713,
    longitude: -97.7469492,
    order_id: 'klAb-zwm8-mYz',
    timestamp: '2015-05-15T12:52:50+00:00',
    agent_id: 'b7aa983243ccbfa43410888dd205c298'
  }
}
```

- **agent_avatar** is an image url you can use to show the agent. It expires in 15 minutes.
- **latitude** and **longitude** reflect the new coordinates of the agent.
- **timestamp** is a utc timestamp of when the order occurred.
- **order_id** is the id of the order.
- **agent_id** is the id of the agent that is carrying out your order.

Managed Client Events

If you have registered a webhook with an enterprise client that can manage other clients, then the webhook will also receive all events for any managed clients.

So in our hierarchical [example](#) at the start, if a webhook was registered for **EnterpriseCo Global**, it would receive all events for:

- EnterpriseCo Global
- EnterpriseCo Europe
- EnterpriseCo Paris
- EnterpriseCo London
- EnterpriseCo Milan
- EnterpriseCo NA
- EnterpriseCo Chicago
- EnterpriseCo New York
- EnterpriseCo Los Angeles

Simulating an order

You can simulate an order via the brawndo api in order to test your webhooks.

The simulation will create an order, assign it to a simulation agent, and move the agent from pickup to the destination.

You can only run a simulation once every fifteen minutes, and only in the sandbox.

```
api.order.simulate('austin')
```