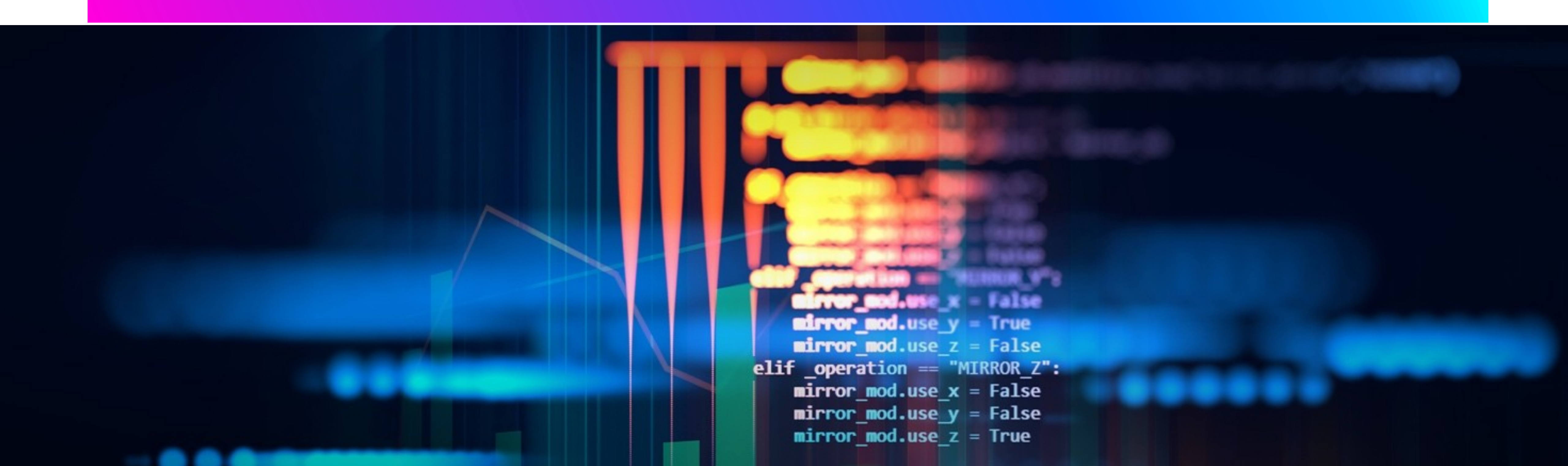




THE **DATA**
APPEAL
COMPANY

API SANDBOX USER GUIDE



SANDBOX FOR API USERS

Welcome to the Data Appeal API Sandbox User Guide, a developer guide designed to help you efficiently test our APIs.

Our APIs generate valuable insights about any [Point\(s\) Of Interest \(POI\)](#) around the world. POI is any specific location including: hotels, restaurants, museums, attractions, fuel stations, retail shops or similar property.

This Sandbox already includes 24 POIs that belong to the following industries: hospitality, F&B, retail and attractions.

Every industry includes this set of POIs: 1 licensed POI plus a set of 5 competitors for an overall number of 6 POIs per industry.

You will be able to perform your calls both on licensed POIs and competitors.

Please know that, even though in the Sandbox the POIs are already associated for trial purposes, after purchasing your licences you will be able to perform an API call to search with Google PlaceID the specific POIs you would like to associate to your licences.

API SET

- Licences:** the license API allows the user to manage and obtain licences data. (Page 3).
- Competitor:** the competitor API allows the user to manage and obtain competitors data. (Page 4).
- Reputation:** the reputation API allows the user to obtain the Sentiment information of a specific POI (Page 5).
- Rates:** the rates API allows the user to obtain the rates information of a specific POI (Page 6).

AUTHENTICATION

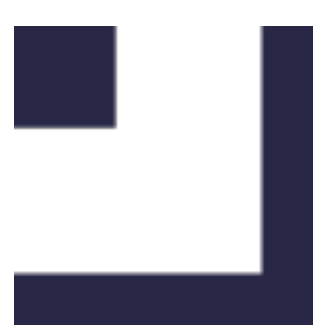
To access the APIs, you will first need to provide your identity and allow us to authorize your requests. As API Sandbox User you are provided with the following credentials:

1. {account_id}
2. {bearer}
3. {x-api-key}

To perform a request, you need to specify the following in your HTTP headers:

- x-api-key: a key that identifies your account
- Authorization (bearer): a JWT token used to identify the user and used to authorize the request. By default, the JWT doesn't expire.

Additionally, before specifying the API, you will need to provide your identity by entering your Account ID. The Account ID is a different entity from the User ID provided by the JWT token. Specify the Account ID value in the base path where indicated.



LICENCES

The license API allows the user to manage and obtain licences data.

The licence list gives you the listing of POIs available in the Sandbox on which you will perform your testing.

REQUEST

GET

```
'https://api.datappeal.io/v4/account/{account_id}/licences?page_size=4'
--header 'x-api-key: {x-api-key}'
--header 'Authorization: Bearer {bearer}'
```

RESPONSE

```
{
  "results": [
    {
      "id": "{licence_id_1}",
      "licence_type": "PRO",
      "resource": {
        "id": "{poi_id_1}",
        "name": ...
      }
    },
    {
      "id": "{licence_id_2}",
      "licence_type": "PRO",
      "resource": {
        "id": "{poi_id_2}",
        "name": ...
      }
    },
    {
      "id": "{licence_id_3}",
      "licence_type": "PRO",
      "resource": {
        "id": "{poi_id_3}",
        "name": ...
      }
    },
    {
      "id": "{licence_id_4}",
      "licence_type": "PRO",
      "resource": {
        "id": "{poi_id_4}",
        "name": ...
      }
    }
  ],
  "paging": {...}
}
```

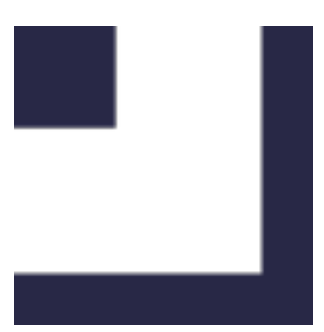
Sample **{poi_id_x}** correspond to a specific Industry as following:

Retail: **{poi_id_1}**

Attractions: **{poi_id_2}**

Hospitality: **{poi_id_3}**

F&B: **{poi_id_4}**



COMPETITOR

The competitor API allows the user to manage and obtain competitor data. For each `{poi_id_x}`, you can perform the following call in order to obtain the competitors set, which are worldwide distributed POI of the same Industry of `{poi_id_x}`.

REQUEST

```
GET
'https://api.datappeal.io/v4/account/{account_id}/poi/{poi_id_x}/competitors'
--header 'x-api-key: {x-api-key}'
--header 'Authorization: Bearer {bearer}'
```

RESPONSE

```
{
  "results": [
    {
      "id": "{competitor_poi_id_x_A}",
      "type": "poi",
      "name": "...",
      "address": {...}
    },
    {
      "id": "{competitor_poi_id_x_B}",
      "type": "poi",
      "name": "...",
      "address": {...}
    },
    {
      "id": "{competitor_poi_id_x_C}",
      "type": "poi",
      "name": "...",
      "address": {...}
    },
    {
      "id": "{competitor_poi_id_x_D}",
      "type": "poi",
      "name": "...",
      "address": {...}
    },
    {
      "id": "{competitor_poi_id_x_E}",
      "type": "poi",
      "name": "...",
      "address": {...}
    }
  ],
  "paging": {...}
}
```

For any POI (so both for `{poi_id_x}` and `{competitor_poi_id_x_y}`), you will be able to perform the reputation and rates calls described respectively in page 5 and in page 6.

REPUTATION

The reputation APIs allow the user to obtain the Sentiment information of a specific licensed POI `{poi_id_x}` or competitor `{competitor_poi_id_x_y}`.

All Reputation calls need 3 mandatory parameters:

- `{poi_id}` → identifies the POI you are querying data for
- `{from}` → identifies the start date reference you are querying data for
- `{to}` → identifies the end date reference you are querying data for

We will also refer the couple `[{from}, {to}]` with the term Timeframe; timeframe must comply with the following requirements:

- 24 months before today <= `{from}` <= `{to}` <= today
- `{from}` >= 12 months before `{to}`

BASE PATH

https://api.datapeal.io/v4/licence/account/{account_id}/poi/{poi_id}/

The following schema summarizes all possible paths combinations appendable to base path:

	/overall	/overall /series	/topics	/topic /{topic} /overall	/topics /overall	/ratings	/clusters /overall	/contents /fragments
/	✓	✓	✓	✓	✓	✓	✓	✓
/grouped	✓	✓				✓		
/compare	✓	✓		✓	✓	✓	✓	
/grouped /compare	✓	✓				✓		

As a result, for each [POI, Timeframe], you can call 20 distinct endpoints for which you can set optional filters as in the examples below:

[/overall?from=2021-01-01&to=2021-05-01](#)
[/overall/compare?from=2021-01-01&to=2021-05-01](#)
[/overall/series?from=2021-01-01&to=2021-05-01&period=week](#)
[/overall/series/grouped?from=2021-01-01&to=2021-05-01&period=week&group_type=network](#)
[/topics?from=2021-01-01&to=2021-05-01](#)
[/topic/bedroom/overall?from=2021-01-01&to=2021-05-01](#)
[/topics/overall?from=2021-01-01&to=2021-05-01&network=booking](#)
[/ratings/grouped/compare?from=2021-01-01&to=2021-05-01&period=week&group_type=network](#)
[/clusters/overall?from=2021-01-01&to=2021-05-01&user_type=family](#)
[/contents/fragments?from=2021-01-01&to=2021-05-01&content_type=review](#)

RATES

The rates API allows the user to obtain the rates information of a specific licensed POI `{poi_id_x}` or competitor `{competitor_poi_id_x_y}`. Calling Rates API, you can obtain non-empty responses only for `{poi_id_3}` and `{competitor_poi_id_3_y}`, since rates data is only provided for the Hospitality Industry.

In all Rates calls **Timeframe** `[{from}, {to}]` must comply with the following requirements:

- 1. `{from}` `<=` `{to}` `<=` 12 months after today
- 2. `{from}` `>=` 31 days before `{to}`

BASE PATH

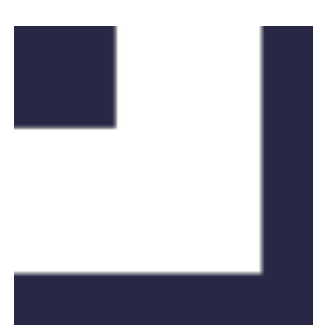
`https://api.datapeal.io/v4/licence/account/{account_id}/poi/{poi_id}/`

The following schema summarizes all possible paths combinations appendable to base path:

	<code>/rates /details</code>	<code>/rates /rooms</code>	<code>/rates /series</code>	<code>/rates /saturation /series</code>
<code>/</code>	✓	✓	✓	✓
<code>/compare</code>			✓	✓

As a result, for each [POI, Timeframe], you can call 6 distinct endpoints for which you can set optional filters as in the examples below:

`/rates/details?from=2021-09-01&to=2021-09-30`
`/rates/details?from=2021-09-01&to=2021-09-30?refundable=true`
`/rates/rooms?from=2021-09-01&to=2021-09-30`
`/rates/rooms?from=2021-09-01&to=2021-09-30&numbers_guest=2`
`/rates/series?from=2021-09-01&to=2021-09-30&period=day`
`/rates/series/compare?from=2021-09-01&to=2021-09-30&period=week`
`/rates/saturation/series?from=2021-09-01&to=2021-09-30&period=day`
`/rates/saturation/series/compare?from=2021-09-01&to=2021-09-30&period=day`



SUPPORT CONTACTS

We will be happy to assist you in resolving any technical issue encountered while using Data Appeal API Sandbox.

Please feel free to reach out time any time during our working hours from Monday to Friday 9.00-13.00/ 14.00-18.00 at the email address below.

api.support@datappeal.io

FAQs

Please find below a list of the most common errors you might experience while testing APIs in the Sandbox. Most of the errors will self-resolve within minutes, should error persist do not hesitate to reach out to our Support Team using the contacts listed above.

Q: I receive response 429.

A: Such response is returned if one of the following limits has been exceeded:

- 10 requests per second > just decrease the number of simultaneous requests.
- 1000 requests per day > you either can wait the next day or contact us to increase the limit.

Q: I receive response 425.

A: Try again after 3 minutes.

Q: I receive response 404.

A: Check if endpoint path is correct.

Q: I receive response 403.

A: Such response is returned if the user doesn't have the permission to perform the call. Check Page 2 of this guide to make sure the API Set you are testing is authorized in the Sandbox.

Q: I receive response 401.

A: Check that the variable parts of your request such as `{x-api-key}`, `{bearer}`, `{poi_id}` are spelled correctly without any trailing spaces or undesired characters.

Q: I receive response 400.

A: Check if parameters are correct and consistent. You may find a hint for the parameters error in the response message.

Q: I receive response 504.

A: This should happen after having waited for a response for longer than 30 seconds. Try performing the same request again.

Q: I receive response 503.

A: This should be a temporary issue. Try performing the same request again.

Q: I receive response 500.

A: This is an unexpected error. Please verify it keeps occurring repeating the call, then contact us.

