Introduction to IndiGO IQ APIs

Aggregated HTTP API:

Aggregated traffic information can be downloaded from our database using simple HTTP requests. This section provides details on how to use this API.

The URL of the service is: **https://core.api.bluecity.ai/s/ad**
The request type should be a ***GET*** request.
The parameters require assigning a value to them:

- ***UDID***: ID of the sensor
- ***fdate***: starting date of the requested date-time range (in ISO 8601 format)
- ***tdate*** ending date of the requested date-time range (in ISO 8601 format)
- ***f***: fields that you desire to get the values (fields should be separated by commas)
- ***a***: the type of aggregation
- ***simplified***: for simplified output, it should be 1 otherwise 0 (recommend to use the simplified output)

Parameters details are based on the following information.

- The UDID of the device
- For the field properties, you can use the following keywords separated by commas.
  - **ne** (vehicle movements - north to east)
  - **ns** (vehicle movements - north to south)
  - **nw** (vehicle movements - north to west)
  - **es** (vehicle movements - east to south)
  - **ew** (vehicle movements - east to west)
  - **en** (vehicle movements - east to north)
  - **sw** (vehicle movements - south to west)
  - **sn** (vehicle movements - south to north)
  - **se** (vehicle movements - south to east)
  - **wn** (vehicle movements - west to north)
  - **we** (vehicle movements - west to east)
  - **ws** (vehicle movements - west to south)
  - **nrl** (pedestrian movements right to left - north crosswalk)
  - **nlr** (pedestrian movements left to right - north crosswalk)
  - **erl** (pedestrian movements right to left - east crosswalk)
  - **elr** (pedestrian movements left to right - east crosswalk)
  - **srl** (pedestrian movements right to left - south crosswalk)
  - **slr** (pedestrian movements left to right - south crosswalk)
  - **wrl** (pedestrian movements right to left - west crosswalk)
  - **wlr** (pedestrian movements left to right - west crosswalk)
- For the aggregation field, please use one of the following values:

    - **1**: 15 minutes
    - **2**: Hourly
    - **3**: Daily
    - **4**: Monthly
- Also, please provide the date fields with ISO 8601 format like the following example: **2020-06-30T10:00:42**

Here is an example request:
https://core.api.bluecity.ai/s/ad?UDID= ***<UDID>***&fdate=2020-06-30T10:00:42&tdate=2020-06-30T15:00:42&f=ne,nw,ns,nlr,nrl,&a=2&simplified=1

Authentication

In order to have access to the API, you can use your provided credentials to fetch a JWT access token from the following address:

```
address: https://core.api.bluecity.ai/api/token/
method: POST
Body:

{

    "username”: <username>,

    “password”: <password>

}

Response:
{

    "refresh": <refresh token>

    "access": <access token>

}
```

The access token should be piggybacked with your original HTTP get request as a bearer token for fetching count data.
The access token is valid for a day. Using refresh token, you can fetch a new valid access token without exposing your credentials again. You can use the following information to refresh your token.

```
address: https://core.api.bluecity.ai/api/token/refresh/
method: POST
Body:

{
```

```
    " refresh”:<refresh token>,
}
Response:
{
    "access": <access token>
}
```

Refresh token expires after 3 days.

All APIs will be upgrading consciously with more classes of road users and traffic data/analytics.

Other traffic data still will be available through our IndiGO iQ dashboard.

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