

Dublin Bikes : [1]

Two kinds of data are delivered by the platform:

- **Static** data provides stable information like station position, number of bike stands, payment terminal availability, etc.
- **Dynamic** data provides station state, number of available bikes, number of free bike stands, etc.

API key :

b87a4a1d8ffe286392ea70d9047502400c6f3d94

Static data:

Static data doesn't require an API key. For equal accessibility to dynamic data, you must use a personal API key. Gives the list of all the places in the city.

Also available as static data in CSV format which can be found at

<https://developer.jcdecaux.com/#/opendata/vls?page=static&contract=Paris>

Request :

https://api.jcdecaux.com/vls/v1/stations?contract={contract_name}&apiKey={api_key}

Example:

<https://api.jcdecaux.com/vls/v1/stations?contract=Dublin&apiKey=b87a4a1d8ffe286392ea70d9047502400c6f3d94>

```
{
  "number": 123,
  "contract_name" : "Paris",
  "name": "stations name",
  "address": "address of the station",
  "position": {
    "lat": 48.862993,
    "lng": 2.344294
  },
  "banking": true,
  "bonus": false,
  "status": "OPEN",
  "bike_stands": 20,
  "available_bike_stands": 15,
  "available_bikes": 5,
  "last_update": <timestamp>
}
```

Dynamic data:

The current availability can be retrieved from by requesting with a station number.

Example:

<https://api.jcdecaux.com/vls/v1/stations/42?contract=Dublin&apiKey=b87a4a1d8ffe286392ea70d9047502400c6f3d94>

```
{
  "number": 42,
  "name": "SMITHFIELD NORTH",
  "address": "Smithfield North",
  "position": {
    "lat": 53.349562,
    "lng": -6.278198
  },
  "banking": true,
  "bonus": false,
  "status": "OPEN",
  "contract_name": "Dublin",
  "bike_stands": 30,
  "available_bike_stands": 15,
  "available_bikes": 15,
  "last_update": 1517514019000
}
```

Dublin weather[2]

<https://developer.weatherunlocked.com/signup>

User : jabezsam

Password : team2@Pass

Pricing:

Packages \$ per month	Free \$0	SSL Starter \$14	Developer \$30	Pro \$150	Advanced \$380	Enterprise \$1500
Calls per Minute	75	100	300	1,000	10,000	500,000
Calls per Day	25,000	50,000	300,000	Unlimited*	Unlimited*	Unlimited*
Current Weather API	✓	✓	✓	✓	✓	✓
8 days /3-hour	✓	✓	✓	✓	✓	✓
15-days/daily	-	-	-	✓	✓	✓
Bulk Download	-	-	-	-	✓	✓
Subscribe Now	Start	Start	Start	Start	Start	Start
Availability	95.0%	98.0%	99.5%	99.8%	99.9%	99.9%
SSL	-	✓	✓	✓	✓	✓
Weather API data updates	Every hour	Every 30 mins	Every 15 mins	Every 15 mins	Every 15 mins	Every 15 mins
Tech support	Community Forum	Email 1-day	Email 12-hr	Email,live chat	Email,live chat and Phone	Dedicated 24/7

App id : fc1ddbef

Key : d7795fe11e4c67725d5882807523b50c

(Details are in the dashboard)

Example:

http://api.weatherunlocked.com/api/current/53.39164352416992,-6.366779804229736?app_id=fc1ddbef&app_key=d7795fe11e4c67725d5882807523b50c

```
{
  "lat": 53.43,
  "lon": -6.25,
  "alt_m": 68,
  "alt_ft": 223.1,
  "wx_desc": "Partly cloudy",
  "wx_code": 1,
  "wx_icon": "PartlyCloudyNight.gif",
  "temp_c": 4,
  "temp_f": 39.2,
  "feelslike_c": -0.85,
  "feelslike_f": 30.46,
  "humid_pct": 70,
  "windspd_mph": 16.16,
  "windspd_kmh": 26,
  "windspd_kts": 14.04,
  "windspd_ms": 7.22,
  "winddir_deg": 320,
  "winddir_compass": "NW",
  "cloudtotal_pct": 50,
  "vis_km": 10,
  "vis_mi": 6.21,
  "vis_desc": null,
  "slp_mb": 1014.9,
  "slp_in": 30.05,
  "dewpoint_c": -0.95,
  "dewpoint_f": 30.29
}
```

Dublin Bus/rail/luas[3]:

The detailed document for reference can be found here –

<https://docs.google.com/viewerng/viewer?url=http://data.dublinked.ie/dataset/c9df9a0b-d17a-40ff-a5d4-01da0cf08617/resource/4b9f2c4f-6bf5-4958-a43a-f12dab04cf61/download/rtpirestapispecification.pdf>

No auth token

To find the next bus in a bus stop :

<https://data.dublinked.ie/cgi-bin/rtpi/realtimebusinformation?stopid=7&routeid=40d&format=json>

```
{
  "errorcode": "0",
  "errormessage": "",
  "numberofresults": 3,
  "stopid": "7",
  "timestamp": "02/02/2018 18:27:52",
  "results": [
    {
      "arrivaldatetime": "02/02/2018 18:32:04",
      "duetime": "4",
      "departuredatetime": "02/02/2018 18:32:04",
      "departureduetime": "4",
      "scheduledarrivaldatetime": "02/02/2018 18:32:00",
      "scheduleddeparturedatetime": "02/02/2018 18:32:00",
      "destination": "Tyrrelstown",
      "destinationlocalized": "Baile an Tirialaigh",
      "origin": "Parnell Street",
      "originlocalized": "Parnell Street",
      "direction": "Outbound",
      "operator": "bac",
      "additionalinformation": "",
      "lowfloorstatus": "no",
      "route": "40D",
      "sourcetimestamp": "02/02/2018 17:33:41",
      "monitored": "true"
    },
  ],
}
```

Google Map API [4]

The directions api is what we want

API key: AlzaSyBx0EJeTFDFhj3zCiV-kKou0mKqSarSnm0

(Can create one for each google account)

Usage limits:

<https://developers.google.com/maps/documentation/directions/usage-limits>

Standard Usage Limits	
Users of the standard API:	Enable pay-as-you-go billing to unlock higher quotas:
<ul style="list-style-type: none">2,500 free directions requests per day, calculated as the sum of client-side and server-side queries.Up to 23 waypoints allowed in each request, whether client-side or server-side queries.50 requests per second, calculated as the sum of client-side and server-side queries.	\$0.50 USD / 1000 additional requests, up to 100,000 daily. ENABLE BILLING

The detailed documentation is at :

<https://developers.google.com/maps/documentation/directions/intro?authuser=1#TravelModes>

Source and destination with mode :

<https://developers.google.com/maps/documentation/directions/intro?authuser=1#TravelModes>

Example:

<https://maps.googleapis.com/maps/api/directions/json?origin=Toronto&destination=Montreal&mode=bicycling&key=AlzaSyBx0EJeTFDFhj3zCiV-kKou0mKqSarSnm0>

Combination of gps-coordinates, destination address and mode:

<https://maps.googleapis.com/maps/api/directions/json?origin=53.341952,-6.251720&destination=4+Curragh+Hall+Crescent,+Tyrrelstown,+4&&mode=bicycling&key=AlzaSyBx0EJeTFDFhj3zCiV-kKou0mKqSarSnm0>

the origin can be place id also

[origin=place_id: ChIJ3S-JXmauEmsRUclaWtf4MzE](#)

END

References:

- [1] <https://developer.jcdecaux.com/#/opendata/vls?page=getstarted&contract=Paris>
- [2] <https://developer.weatherunlocked.com/documentation/localweather>
- [3] <https://data.gov.ie/dataset/real-time-passenger-information-rtpi-for-dublin-bus-bus-eireann-luas-and-irish-rail/resource/4b9f2c4f-6bf5-4958-a43a-f12dab04cf61>
- [4] <https://developers.google.com/maps/documentation/directions/?authuser=1>