



JOIE Open Data API Specification

Overview

This document describes the API specifications for the JOIE Open Data system, which provides real-time taxi location and availability data to the public data portals (data.gov.hk).

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Data Sets Overview

Data Set	Maximum Polling Frequency	Target Consumers
Public Open Data	30 seconds	data.gov.hk, HKeMobility

Public Data API

Endpoint

GET <https://open-api.joie.socif.co/vehicles>

Description

Provides public taxi fleet data for data.gov.hk and open data. It is expected that this endpoint is behind TD's CDN for caching. This endpoint shall not be exposed to the end users directly. Consumers shall not poll this endpoint more frequently than once every 30 seconds.

Request Headers

Header	Type	Required	Description
Nil			

Response Format

Content-Type: application/json

Success Response (200 OK):

```
{
  "taxis": [
    {
      "veh_id": "JOI100040880",
      "taxi_type": "W",
      "passenger_cap": 5,
      "lat": 22.310087,
      "long": 114.170044,
      "time_stamp": "2026-03-01T15:58:45+08:00",
      "op_status": "O"
    }
  ]
}
```

Data Schema (Public API)

No.	Category	Field	Data Name	Description	Type	Unit
1	Vehicle Data	veh_id	Vehicle identifier	Unique identifier for each Taxi. May be rotated.	varchar	N/A
2	Vehicle Data	taxi_type	Taxi Type	Type of the Taxi: • "O" – Ordinary Taxi • "P" – Premium Taxi • "W" – Wheelchair-accessible Taxi	char	N/A
3	Vehicle Data	passenger_cap	Passenger Capacity	Maximum number of passengers	integer	Seats
4	Location Data	lat	Latitude	Latitude in WGS84 (EPSG:4326)	float null	Degrees (°)
5	Location Data	long	Longitude	Longitude in WGS84 (EPSG:4326)	float null	Degrees (°)
6	Location Data	time_stamp	Timestamp	Server timestamp	timestamp null	ISO 8601 format
7	Taxi Status	op_status	Operating Status	Current operational status: • "O" – Occupied • "V" – Vacant • "N" – Out of Service	char	N/A

Appendix: Sample Data

For Public Data
<pre>{ "veh_id": "JOI100040880", "taxi_type": "W", "passenger_cap": 5, "lat": null, "long": null, "time_stamp": null, "op_status": "O" },</pre>
<pre>{ "veh_id": "JOI103424356", "taxi_type": "P", "passenger_cap": 6, "lat": 22.310099, "long": 113.93009, "time_stamp": "2026-03-01T15:58:40+08:00", "op_status": "V" },</pre>
<pre>{ "veh_id": "JOI101949888", "taxi_type": "W", "passenger_cap": 5, "lat": null, "long": null, "time_stamp": null, "op_status": "N" },</pre>

Version History

Version	Date	Changes
1.0	2026-03-27	Initial API specification
1.1	2026-04-01	Updated descriptions
1.2	2026-06-17	Updated descriptions

Contact & Support

For technical support or API access requests, please contact the Transport Department.