



Parking Vacancy

Data Specification

Version 1.4

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Data Dictionary

1.1 Basic Information of Car Park

	Field name	Field type	Length	Mandatory?	Remarks
1.1	car_park[*].park_id	varchar	20	Y	Unique ID of car park
1.2	1.2.1 car_park[*].name_en	varchar	50	Y	Car park name in English
	1.2.2 car_park[*].name_tc	varchar	50	Y	Car park name in Traditional Chinese (T. Chinese) (UTF-8)
	1.2.3 car_park[*].name_sc	varchar	50	Y	Car park name in Simplified Chinese (S. Chinese) (UTF-8)
1.3	1.3.1 car_park[*].displayaddress_en	varchar	200	Y	Address in English
	1.3.2 car_park[*].displayaddress_tc	varchar	200	Y	Address in T. Chinese (UTF-8)
	1.3.3 car_park[*].displayaddress_sc	varchar	200	Y	Address in S. Chinese (UTF-8)
1.4	car_park[*].latitude	double	(13,10)	Y	WGS84, Latitude of car park's Main Entrance
1.5	car_park[*].longitude	double	(13,10)	Y	WGS84, Longitude of car park's Main Entrance
1.6	1.6.1 car_park[*].district_en	varchar	40	N	District name in English
	1.6.2 car_park[*].district_tc	varchar	40	N	District name in Traditional Chinese (T. Chinese) (UTF-8)
	1.6.3 car_park[*].district_sc	varchar	40	N	District name in Simplified Chinese (S. Chinese) (UTF-8)
1.7	car_park[*].contactNo	char	10	N	Contact phone number of carpark format: 00000000
1.8	car_park.opening_status	varchar	5	N	Current Opening Status OPEN or CLOSED
1.9	car_park[*].height	double	(3,1)	N	Height limit in meter
1.10	1.10.1 car_park[*].remark_en	varchar	1000	N	Specific usage rules or remark in English for height limit
	1.10.2 car_park[*].remark_tc	varchar	1000	N	Specific usage rules or remark in T. Chinese for height limit (UTF-8)
	1.10.3 car_park[*].remark_sc	varchar	1000	N	Specific usage rules or remark in S. Chinese for height limit (UTF-8)

1.11	1.11.1 car_park[*].website_en	varchar	100	N	URL of English website
	1.11.2 car_park[*].website_tc	varchar	100	N	URL of T. Chinese website
	1.11.3 car_park[*].website_sc	varchar	100	N	URL of S. Chinese website
1.12	car_park[*].carpark_photo	varchar	100	N	URL of photo of car park's Main entrance (In JPEG format)

1.1.1 Get basic information of all participating car parks

Resource URL:

http://resource.data.one.gov.hk/td/carpark/basic_info_all.json

1.1.2 Get basic information of an individual car park

Resource URL:

http://resource.data.one.gov.hk/td/carpark/basic_info_XXXXX.json

where XXXXX is an unique ID of car park.

1.2 Sample JSON of Basic Information of Car Park

1.2.1 Example request to get basic information of all participating car parks:

http://resource.data.one.gov.hk/td/carpark/basic_info_all.json

Example response:

```
{
  "car_park":[
    {
      "park_id":"tdcp1",
      "name_en":"Yau Ma Tei Car Park",
      "name_tc":"油麻地停車場",
      "name_sc":"油麻地停车场",
      "displayaddress_en":"250 Shanghai Street, Yau Ma Tei, Kowloon",
      "displayaddress_tc":"九龍油麻地上海街 250 號",
      "displayaddress_sc":"九龍油麻地上海街 250 号",
      "latitude":"22.30919474",
      "longitude":"114.17043492",
      "district_en":"Yau Tsim Mong",
      "district_tc":"油尖旺",
      "district_sc":"油尖旺",
      "contactNo":"27712915",
      "opening_status":"OPEN",
      "height":"2",
      "remark_en":"",
      "remark_tc":"",
      "remark_sc":"",
      "website_en":"http://www.mackcarpark.com.hk/eng/carpark_info.php?id=23",
      "website_tc":"http://www.mackcarpark.com.hk/big5/carpark_info.php?id=23",
      "website_sc":"",
      "carpark_photo":" http://resource.data.one.gov.hk/td/carpark/tdcp1.jpg "
    },
    {
      "park_id":"tdcp2",
      "name_en":"Rumsey Street Car Park",
      "name_tc":"林士街停車場",
      "name_sc":"林士街停车场",
      "displayaddress_en":"2 Rumsey Street, Sheung Wan, Hong Kong",
      "displayaddress_tc":"香港上環林士街 2 號",
      "displayaddress_sc":"香港上环林士街 2 号",
      "latitude":"22.28740848",
      "longitude":"114.15322694",
      "district_en":"Central & Western",
      "district_tc":"中西區",
      "district_sc":"中西区",
      "contactNo":"25456543",
      "opening_status":"open",
      "height":"2",
      "remark_en":"",

```

```
        "remark_tc": "",
        "remark_sc": "",
        "website_en": "http://www.wilsonparking.com.hk/car-park-detail.php?cp=499",
        "website_tc": "http://www.wilsonparking.com.hk/tc/car-park-detail.php?cp=499",
        "website_sc": "",
        "carpark_photo": "http://resource.data.one.gov.hk/td/carpark/tdcp2.jpg "
    }
    ...
]
}
```

1.2.2 Example request to get basic information of an individual car park:

http://resource.data.one.gov.hk/td/carpark/basic_info_tdc1.json

Example response:

```
{
  "car_park": [
    {
      "park_id": "tdcp1",
      "name_en": "Yau Ma Tei Car Park",
      "name_tc": "油麻地停車場",
      "name_sc": "油麻地停车场",
      "displayaddress_en": "250 Shanghai Street, Yau Ma Tei, Kowloon",
      "displayaddress_tc": "九龍油麻地上海街 250 號",
      "displayaddress_sc": "九龙油麻地上海街 250 号",
      "latitude": "22.30919474",
      "longitude": "114.17043492",
      "district_en": "Yau Tsim Mong",
      "district_tc": "油尖旺",
      "district_sc": "油尖旺",
      "contactNo": "27712915",
      "opening_status": "OPEN",
      "height": "2",
      "remark_en": "",
      "remark_tc": "",
      "remark_sc": "",
      "website_en": "http://www.mackcarpark.com.hk/eng/carpark_info.php?id=23",
      "website_tc": "http://www.mackcarpark.com.hk/big5/carpark_info.php?id=23",
      "website_sc": "",
      "carpark_photo": "http://resource.data.one.gov.hk/td/carpark/tdcp1.jpg "
    }
  ]
}
```

1.3 On-line/Real-time Parking Vacancy Data

Field name	Field description	Field type	Length	Mandatory?	Remarks
car_park[*].park_id	Consists of Carpark Operator Internal ID & Carpark Branch ID	varchar	20	Y	Unique ID for car park a
car_park[*].lastupdate	Last Update Timestamp from the Carpark Operator	datetime		Y	<i>YYYYMMDDTHH:MM:SS+0800, e.g.20151229T10:30:00+0800</i>
car_park[*].vehicle_type[*].type	Vehicle Type	char	1	Y	<i>P-Cars/Vans, M-Motor Cycles, L-Light Goods Vehicles, H-Heavy Goods Vehicle, C-Coaches/Buses, T-Container Vehicles B-Light Buses</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].category	Service Category	varchar	30	Y	<i>HOURLY, DAILY, MONTHLY</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].vacancy_type	Vacancy Type	Char	1	Y	<i>A- Parking space availability with actual number. B- Parking space availability without actual number. C- Car park closed</i>
car_park[*].park_id[*].vehicle_type[*].service_category[*].vacancy	Current Vacancy	int	4	Y	<p><i>When Vacancy Type is A:</i></p> <ul style="list-style-type: none"> ■ <i>0 means car park is full (滿); and</i> ■ <i>-1 means "No data provided by the car park operator (停車場經營者未能提供數據)".</i> <p><i>When Vacancy Type is B:</i></p> <ul style="list-style-type: none"> ■ <i>0 means car park is full (滿);</i> ■ <i>1 means parking space available (有車位); and</i> ■ <i>-1 means "No data provided by the car park operator (停車場經營者未能提供數據)".</i> <p><i>When Vacancy Type is C, it always returns 0 (關閉).</i></p>

1.3.1 Get parking vacancy data of all participating car parks

Resource URL:

http://resource.data.one.gov.hk/td/carpark/vacancy_all.json

1.3.2 Get parking vacancy data of an individual car park

Resource URL:

http://resource.data.one.gov.hk/td/carpark/vacancy_xxxxx.json

where xxxxx is an unique ID of car park.

1.4 Sample JSON of On-line/Real-time Parking Vacancy Data

1.4.1 Example request to get parking vacancy data of all participating car parks:

http://resource.data.one.gov.hk/td/carpark/vacancy_all.json

Example response:

```
{
  "car_park":[
    {
      "park_id":"tdcp1",
      "lastupdate":"2017-04-20T10:11:12+0800",
      "vehicle_type":[
        {
          "type":"P",
          "service_category":[
            {
              "category":"HOURLY",
              "vacancy_type":"B",
              "vacancy":"1"
            }
          ]
        }
      ]
    },
    {
      "park_id":"tdcp2",
      "lastupdate":"2017-04-20T10:11:12+0800",
      "vehicle_type":[
        {
          "type":"P",
          "service_category":[
            {
              "category":"HOURLY",
              "vacancy_type":"B",
              "vacancy":"0"
            }
          ]
        }
      ]
    },
    {
      "park_id":"tdcp3",
      "lastupdate":"2017-04-20T10:11:12+0800",
      "vehicle_type":[
        {
          "type":"P",
          "service_category":[
            {
              "category":"HOURLY",
              "vacancy_type":"C",

```

```
        "vacancy": "0"
      }
    ]
  }
],
{
  "park_id": "tdcp5",
  "lastupdate": "2017-04-20T10:11:12+0800",
  "vehicle_type": [
    {
      "type": "P",
      "service_category": [
        {
          "category": "HOURLY",
          "vacancy_type": "A",
          "vacancy": "55"
        }
      ]
    }
  ],
},
{
  "type": "P",
  "service_category": [
    {
      "category": "HOURLY",
      "vacancy_type": "A",
      "vacancy": "66"
    }
  ]
}
]
}
...
]
```

1.4.2 Example request to get parking vacancy data of an individual car park:

http://resource.data.one.gov.hk/td/carpark/vacancy_tdc1.json

Example response:

```
{
  "car_park": [
    {
      "park_id": "tdcp1",
      "lastupdate": "2017-04-20T10:11:12+0800",
      "vehicle_type": [
        {
          "type": "P",
          "service_category": [
            {
              "category": "HOURLY",
              "vacancy_type": "B",

```

```
        "vacancy": "1"  
      }  
    ]  
  }  
]   
}   
}
```