

**SMART PARKING 1.0**  
**OPEN DATA API 1.0**  
**SPECIFICATION**

**VERSION : 1.0**

**21.03.2017**

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# 1. OPEN DATA API

Open Data API is a RESTful web service API primarily designed for the application developer to access information on the carparks including real-time parking vacancy data and geographical location within Kowloon East area.

## 1.1 API

### 1.1.1 Get All Carpark Information

Get all published carparks basic information without vacancy.

**Resource URL:**

<https://sps-opendata.pilotsmartke.gov.hk/rest/getCarparkInfos>

**Resource Information:**

Response formats	JSON
Requires authentication	NO
Response compression	gzip/deflate supported
Response ETag	Supported

**Parameters:**

carparkTypes (Optional)	The type of carpark to be included.  The possible values are <b>multi-storey</b> , <b>off-street</b> and <b>metered</b> .  If omitted, all carpark types are included.
vehicleTypes (Optional)	The type of vehicle to be included. The possible values are <b>privateCar</b> , <b>LGV</b> , <b>HGV</b> , <b>coach</b> and <b>motorCycle</b> . If omitted, all vehicle types are included.
carparkIds (Optional)	The ids of carparks to be included.  The possible value is comma separated values of carpark id.  If omitted, all carparks are included.
extent (Optional)	Carparks that are within the bounds of the rectangle are returned.  The possible value is comma separated values of left longitude, bottom

	<p>latitude, right longitude and top latitude of bounding rectangle.</p> <p>If omitted, all carparks are included.</p>
<p>fullload</p> <p>(Optional)</p>	<p>Load detailed carpark information in payload.</p> <p>The possible values are <b>true</b> and <b>false</b>.</p> <p>If omitted, only basic fields are loaded.</p>
<p>lang</p> <p>(Optional)</p>	<p>The language of carpark to be retrieve.</p> <p>The possible values are <b>en_US</b> and <b>zh_TW</b>. If omitted, en_US is used.</p>

**Example Request:**

[https://sps-opensdata.pilotsmartke.gov.hk/rest/getCarparkInfos?carparkTypes=multi-storey,off-street,metered&vehicleTypes=motorCycle,coach,LGV,HGV,privateCar&lang=en\\_US](https://sps-opensdata.pilotsmartke.gov.hk/rest/getCarparkInfos?carparkTypes=multi-storey,off-street,metered&vehicleTypes=motorCycle,coach,LGV,HGV,privateCar&lang=en_US)

**Example Response:**

```
{
  "results": [
    {
      "_id":1,
      "name":"Rumsey Street Car Park",
      "nature":"government",
      "type":"multi-storey",,
      "coordinates":[
        114.1532164,
        22.2873045
      ],
      "inputMasked":false,
      "outputMasked":false, ,
      "privateCar":{
        "space":819
      },
      "motorCycle":{
        "space":147
      }
      "closed":false
    },
    {
      "_id":15,
      "name":"INFORMATION CRESCENT",
      "nature":"government",
      "type":"metered",
      "coordinates":[
        114.1309679,
        22.2609531
      ]
    }
  ]
}
```

```

    ],
    "inputMasked":true,
    "outputMasked":true,
    "privateCar":{
        "space":28
    },
    "coach":{
        "space":2
    },
    "closed":false
}
]
}

```

### 1.1.2 Get Carpark Information

Get the carpark detailed information without vacancy.

**Resource URL:**

<https://sps-opendata.pilotsmartke.gov.hk/rest/getCarparkInfo>

**Resource Information:**

Response formats	JSON
Requires authentication	NO
Response compression	gzip/deflate supported
Response ETag	Supported

**Parameters:**

carparkId (Required)	The system id of carpark.
lang (Optional)	The language of carpark to be retrieve. The possible values are <b>en_US</b> and <b>zh_TW</b> . If omitted, en_US is used.

**Example Request:**

[https://sps-opendata.pilotsmartke.gov.hk/rest/getCarpark?carparkId=1&lang=en\\_US](https://sps-opendata.pilotsmartke.gov.hk/rest/getCarpark?carparkId=1&lang=en_US)

**Example Response:**

```

{
  "results": {
    "_id": 1,
    "name": "Rumsey Street Car Park",
    "nature": "government",
    "type": "multi-storey",
    "address": {
      "streetName": "Rumsey Street",
      "buildingNo": "2",
      "subDistrict": "Sheung Wan",
      "dcDistrict": "Sheung Wan",
      "region": "HK"
    },
    "renditionUrls": {
      "square": "http://52.76.81.105:28080/rest/getRendition/fs-1%3A941849462334499966447526451899578794239698224918.jpg/square.png",
      "thumbnail": " http://52.76.81.105:28080/rest/getRendition/fs-1%3A941849462334499966447526451899578794239698224918.jpg/thumbnail.png ",
      "banner": " http://52.76.81.105:28080/rest/getRendition/fs-1%3A941849462334499966447526451899578794239698224918.jpg/banner.png "
    },
    "contactNo": "N/A",
    "outputMasked": false,
    "inputMasked": false,
    "paymentMethods": [
      "cash",
      "autopay-station",
      "alipay",
      "credit-card",
      "EPS",
      "octopus",
      "visa",
      "master",
      "unionpay"
    ],
    "facilities": [
      "washing",
      "unloading",
      "disabilities",
      "evCharger"
    ],
    "heightLimits": [
      {
        "height": 2,
        "remark": "Entrance"
      }
    ],
    "openingHours": [
      {
        "periodStart": "00:00",
        "periodEnd": "24:00",
      }
    ]
  }
}

```

```

    "excludePublicHoliday":false,
    "weekdays":[
      "MON",
      "TUE",
      "WED",
      "THU",
      "FRI",
      "SAT",
      "SUN"
    ]
  },
  "closed":false,
  "creationDate":"2015-09-07T09:00:32.250Z",
  "modifiedDate":"2015-10-08T07:16:18.928Z",
  "publishedDate":"2015-09-25T07:00:16.942Z",
  "published":true,
  "motorCycle":{
    "dayNightParks":[
      {
        "type":"day-park",
        "periodStart":"008:00",
        "periodEnd":"23:00",
        "price":20,
        "excludePublicHoliday":false,
        "weekdays":[
          "MON",
          "TUE",
          "WED",
          "THU",
          "FRI",
          "SAT",
          "SUN"
        ],
        "covered":"open-air"
      },
      {
        "type":"night-park",
        "periodStart":"23:00",
        "periodEnd":"008:00",
        "price":8,
        "excludePublicHoliday":false,
        "weekdays":[
          "MON",
          "TUE",
          "WED",
          "THU",
          "FRI",
          "SAT",
          "SUN"
        ]
      }
    ]
  }
}

```

```

    }
  ],
  "space":147
},
"privateCar":{
  "dayNightParks":[
    {
      "type":"day-park",
      "periodStart":"07:00",
      "periodEnd":"19:00",
      "price":150,
      "excludePublicHoliday":true,
      "weekdays":[
        "MON",
        "TUE",
        "WED",
        "THU",
        "FRI",
        "SAT"
      ],
      "covered":"open-air"
    },
    {
      "type":"day-park",
      "periodStart":"008:00",
      "periodEnd":"24:00",
      "price":90,
      "excludePublicHoliday":false,
      "weekdays":[
        "SUN",
        "PH"
      ],
      "covered":"open-air"
    },
    {
      "type":"night-park",
      "periodStart":"19:00",
      "periodEnd":"07:00",
      "price":50,
      "excludePublicHoliday":true,
      "weekdays":[
        "MON",
        "TUE",
        "WED",
        "THU",
        "FRI",
        "SAT"
      ],
      "covered":"open-air"
    }
  ],
  "covered":"open-air"
},
{

```



```

    "periodStart": "00:00",
    "periodEnd": "24:00",
    "price": 100,
    "type": "12-hours-park",
    "remark": "Test",
    "excludePublicHoliday": false,
    "weekdays": [
      "MON",
      "TUE",
      "WED",
      "THU",
      "FRI"
    ],
    "covered": "open-air"
  },
  {
    "periodStart": "00:00",
    "periodEnd": "24:00",
    "price": 100,
    "type": "12-hours-midnight-park",
    "remark": "Test",
    "excludePublicHoliday": false,
    "weekdays": [
      "MON",
      "TUE",
      "WED",
      "THU",
      "FRI"
    ],
    "covered": "open-air"
  },
  {
    "periodStart": "00:00",
    "periodEnd": "24:00",
    "price": 200,
    "type": "24-hours-park",
    "remark": "Test",
    "excludePublicHoliday": false,
    "weekdays": [
      "MON",
      "TUE",
      "WED",
      "THU",
      "FRI"
    ],
    "covered": "open-air"
  },
  {
    "periodStart": "00:00",
    "periodEnd": "24:00",
    "price": 200,

```

```

        "type": "24-hours-midnight-park",
        "remark": "Test",
        "excludePublicHoliday": false,
        "weekdays": [
            "MON",
            "TUE",
            "WED",
            "THU",
            "FRI"
        ],
        "covered": "open-air"
    },
    ],
    "hourlyCharges": [
        {
            "type": "hourly",
            "periodStart": "07:00",
            "periodEnd": "23:00",
            "price": 20,
            "excludePublicHoliday": false,
            "weekdays": [
                "MON",
                "TUE",
                "WED",
                "THU",
                "FRI",
                "SAT",
                "SUN"
            ],
            "covered": "open-air"
        },
        {
            "type": "hourly",
            "periodStart": "23:00",
            "periodEnd": "07:00",
            "price": 14,
            "excludePublicHoliday": false,
            "weekdays": [
                "MON",
                "TUE",
                "WED",
                "THU",
                "FRI",
                "SAT",
                "SUN"
            ],
            "covered": "open-air"
        }
    ],
    "space": 819,
    "spaceDIS": 0,

```

```

"spaceEV":30,
"spaceUNL":0,
"monthlyCharges":[
  {
    "price":3000,
    "remark":"Non-reserved, covered",
    "type":"monthly-park",
    "covered":"open-air",
    "reserved":"non-reserved"
  },
  {
    "price":1500,
    "remark":"Non-reserved, covered",
    "type":"monthly-night-park",
    "ranges":[
      {
        "weekdays":[
          "MON",
          "TUE",
          "WED",
          "THU",
          "FRI",
          "SAT",
          "SUN"
        ],
        "excludePublicHoliday":false,
        "periodStart":"20:00",
        "periodEnd":"008:00",
        "weekdayRanges":"MON-SUN"
      }
    ],
    "covered":"open-air",
    "reserved":"non-reserved"
  },
  {
    "price":6000,
    "remark":"Non-reserved, covered",
    "type":"bimonthly-park",
    "covered":"open-air",
    "reserved":"non-reserved"
  }
],
"privileges":[
  {
    "periodStart":"008:00",
    "periodEnd":"23:00",
    "description":"Upon single spending of HK$400 or above (including 1 F&B receipt
) at Fashion Walk, you can enjoy extra 1 hour free parking. For detailed Terms & Conditions, p
lease visit www.fashionwalk.com.hk/en/happenings.",
    "excludePublicHoliday":false,
    "weekdays":[

```

```

        "MON",
        "TUE",
        "WED",
        "THU",
        "FRI",
        "SAT",
        "SUN"
    ]
}
]
},
"coordinates": [
    114.1532164,
    22.2873045
]
}
}

```

### 1.1.3 Get All Carpark Vacancies

Get all carpark vacancies in batch.

**Resource URL:**

<https://sps-opendata.pilotsmartke.gov.hk/rest/getCarparkVacancies>

**Resource Information:**

Response formats	JSON
Requires authentication	YES
Response compression	gzip/deflate supported
Response ETag	Supported

**Parameters:**

carparkTypes (Optional)	The type of carpark to be included.  The possible values are <b>multi-storey</b> , <b>off-street</b> and <b>metered</b> .  If omitted, all carpark types are included.
vehicleTypes (Optional)	The type of vehicle to be included.  The possible values are <b>privateCar</b> , <b>LGV</b> , <b>HGV</b> , <b>coach</b> and <b>motorCycle</b> .

	If omitted, all vehicle types are included.
carparkIds (Optional)	The ids of carpark to be included.  The possible value is comma separated values of carpark id.  If omitted, all carpark are included.
extent (Optional)	Carparks that are within the bounds of the rectangle are returned.  The possible value is comma separated values of left longitude, bottom latitude, right longitude and top latitude of bounding rectangle.  If omitted, all carpark are included.
lang (Optional)	The language of carpark to be retrieve.  The possible values are <b>en_US</b> and <b>zh_TW</b> . If omitted, en_US is used.

**Example Request:**

[https://sps-opensdata.pilotsmartke.gov.hk/rest/getCarparkVacancies?carparkTypes=multi-storey,off-street,metered&vehicleTypes=motorCycle,coach,LGV,HGV,privateCar&lang=en\\_US](https://sps-opensdata.pilotsmartke.gov.hk/rest/getCarparkVacancies?carparkTypes=multi-storey,off-street,metered&vehicleTypes=motorCycle,coach,LGV,HGV,privateCar&lang=en_US)

**Example Response:**

```
{
  "results": [
    {
      "_id": 1,
      "motorCycle": {
        "vacancy": 100,
        "vacancyDIS": 0,
        "vacancyEV": 0,
        "vacancyUNL": 0,
      },
      "coach": {
        "vacancy": 0,
        "vacancyDIS": 0,
        "vacancyEV": 0,
        "vacancyUNL": 0,
      },
      "HGV": {
        "vacancy": 600,
        "vacancyDIS": 0,
        "vacancyEV": 0,
        "vacancyUNL": 0,
      },
      "LGV": {
        "vacancy": 600,
      }
    }
  ]
}
```

```

        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0,
    },
    "privateCar":{
        "vacancy":200,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0,
    },
    "closed":false,
    "lastUploadDate":"2015-09-16T04:38:00.353Z"
},
{
    "_id":15,
    "motorCycle":{
        "vacancy":0,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0
    },
    "coach":{
        "vacancy":0,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0
    },
    "HGV":{
        "vacancy":0,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0
    },
    "LGV":{
        "vacancy":0,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0
    },
    "privateCar":{
        "vacancy":0,
        "vacancyDIS":0,
        "vacancyEV":0,
        "vacancyUNL":0
    },
    "closed":false,
    "lastUploadDate":"2015-10-07T17:02:21.091Z"
}
]
}

```

## 1.1.4 Get Carpark Vacancy

Get the specific carpark vacancy.

### Resource URL:

<https://sps-opendata.pilotsmartke.gov.hk/rest/getCarpark>

### Resource Information:

Response formats	JSON
Requires authentication	YES
Response compression	gzip/deflate supported
Response ETag	Supported

### Parameters:

carparkId (Required)	The system id of carpark.
-------------------------	---------------------------

### Example Request:

[https://sps-opendata.pilotsmartke.gov.hk/rest/getCarpark?carparkId=1&lang=en\\_US](https://sps-opendata.pilotsmartke.gov.hk/rest/getCarpark?carparkId=1&lang=en_US)

### Example Response:

```
{
  "results": {
    "_id": 1,
    "motorCycle": {
      "vacancy": 100,
      "vacancyDIS": 0,
      "vacancyEV": 0,
      "vacancyUNL": 0
    },
    "privateCar": {
      "vacancy": 200,
      "vacancyDIS": 0,
      "vacancyEV": 0,
      "vacancyUNL": 0
    },
    "closed": false,
    "lastUploadDate": "2015-09-16T04:38:00.353Z"
  }
}
```

## 2. FIELD DEFINITION

The below is structure of carpark used in every response. In general, if a property contains empty array or value, the property WOULD not include in response.

Field Name	Type	Definition
<b><u>TOP ELEMENTS:</u></b>		
<b>_id</b>	Number	Mandatory. The system ID of carpark.
<b>name</b>	String	Mandatory. The name of carpark in English. For localized response, it is the name of carpark in specified locale.
<b>nature</b>	String	Mandatory. The nature of carpark. The possible values are <b>government</b> or <b>commercial</b> .
<b>type</b>	String	Mandatory. The type of carpark. The possible values are <b>multi-storey</b> , <b>off-street</b> and <b>metered</b> .
<b>address</b>	Object	Mandatory. The address of carpark in English. For localized response, it is the address of carpark in specified locale.
<b>unitNo</b>	String	Optional. Unit No. in specified locale.
<b>unitDescriptor</b>	String	Optional. Unit Descriptor in specified locale.
<b>floor</b>	String	Optional. Floor in specified locale.
<b>blockNo</b>	String	Optional. Block No. in estates in specified locale.
<b>blockDescriptor</b>	String	Optional. Block Descriptor in specified locale.
<b>buildingName</b>	String	Optional. Building Name in specified locale.
<b>phase</b>	String	Optional. Phase in specified locale.
<b>estateName</b>	String	Optional. Estate Name in specified locale.
<b>villageName</b>	String	Optional. Village Name in specified locale.
<b>streetName</b>	String	Optional. Street Name in specified locale.
<b>buildingNo</b>	String	Optional. Building No. in specified locale.
<b>subDistrict</b>	String	Mandatory. Sub-district in specified locale.
<b>dcDistrict</b>	String	Mandatory. District in specified locale.
<b>region</b>	String	Mandatory. Region in specified locale.
<b>displayAddress</b>	String	A unstructured address generated from address.
<b>contactNo</b>	String	The telephone number of carpark.
<b>coordinates</b>	[Number, Number]	Mandatory. Longitude and latitude of carpark in array.
<b>renditionUrls</b>	Object	Optional. Renditions generated from photo uploaded by carpark owner. Empty if



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		carpark doesn't have any photo.
<b>square</b>	String	Mandatory. Absolute URL of image rendition in 150x150 center-cropped square.
<b>thumbnail</b>	String	Mandatory. Absolute URL of image rendition in center-cropped rectangle with maximum 320 in width and 250 in height.
<b>banner</b>	String	Mandatory. Absolute URL of image rendition 300x250 center-cropped rectangle.
<b>website</b>	String	Optional. The URL of carpark website.
<b>heightLimits</b>	[Object]	Optional. Array of height limits Below is an example.  <pre>[   {     "height":3.5,     "remark":"Private Car/Van"   },   {     "height":4,     "remark":"Lorry"   } ]</pre>
<b>height</b>	String	Mandatory. Height limit in meters
<b>remark</b>	String	Optional. Condition this rule applies (e.g. non-resident, stage 4, etc.).  For localized response, it is the remark text in specified locale.
<b>inputMasked</b>	Boolean	Optional. Granularity of input data. This field is only used by terminal. If false, actual number should be sent to server. Otherwise, quantized number is sent.
<b>outputMasked</b>	Boolean	Optional. Granularity of space vacancy shown to end user. If false, actual number should be shown to end user. Otherwise, quantized message such as "Full/Not Full" is shown to end user.
<b>closed</b>	Boolean	Mandatory. Indicates whether the carpark is closed or not.
<b>openingHours</b>	[Object]	Optional. Array of opening hour rules. Below is an example:  <pre>[   {     "periodStart":"19:00",     "periodEnd":"07:00",     "excludePublicHoliday":true,     "weekdays":[       "MON",       "TUE",       "WED",       "THU",       "FRI"     ]   },   {     "periodStart":"07:00",     "periodEnd":"07:00", </pre>

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		<pre>"excludePublicHoliday":false, "weekdays":[   "SAT",   "SUN",   "PH" ] }</pre> <p>It means carpark opens at Mon-Fri 19:00-07:00 and Sat/Sun/PH 07:00-07:00</p>
<b>periodStart</b>	String	Mandatory. Start time of the opening hour applied. Example value is "08:00".
<b>periodEnd</b>	String	Mandatory. End time of the opening hour applied. Example value is "24:00".
<b>excludePublicHoliday</b>	Boolean	Mandatory. Indicates whether the opening hour is applied to public holiday or not.
<b>weekdays</b>	[String]	<p>Mandatory. Indicates which week days the opening hour applied.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. MON</li> <li>2. TUE</li> <li>3. WED</li> <li>4. THU</li> <li>5. FRI</li> <li>6. SAT</li> <li>7. SUN</li> <li>8. PH</li> </ol>
<b>gracePeriods</b>	[Object]	<p>Optional. Array of grace period rules. Below is an example:</p> <pre>[   {     "minutes":30,     "remark":"Car Park A"   },   {     "minutes":15,     "remark":"Car Park B"   } ]</pre>
<b>minutes</b>	Number	Mandatory. No of minutes user will park for free
<b>remark</b>	String	<p>Optional. Condition this grace period applies (e.g. non-resident, stage 4, etc.).</p> <p>For localized response, it is the remark text in specified locale.</p>
<b>facilities</b>	[String]	<p>Optional. Array of supported facilities.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. evCharger</li> <li>2. disabilities</li> <li>3. unloading</li> <li>4. washing</li> </ol>

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		5. valet-parking
<b>paymentMethods</b>	[Object]	<p>Optional. Array of supported payment methods.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. cash</li> <li>2. octopus</li> <li>3. EPS</li> <li>4. visa</li> <li>5. master</li> <li>6. unionpay</li> <li>7. alipay</li> <li>8. autopay-station</li> </ol>
<b>privateCar</b>	Object	<p>Optional. Placeholder of private space and rating information.</p> <p>If the carpark doesn't contain any information related to private car, this property WOULD be not be provided in response.</p> <p>Enclosed elements include:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>vacancy</b></li> <li>• <b>hourlyCharges</b></li> <li>• <b>dayNightParks</b></li> <li>• <b>monthlyCharges</b></li> <li>• <b>unloadings</b></li> <li>• <b>privileges</b></li> </ul>
<b>LGV</b>	Object	<p>Optional. Placeholder of light goods vehicle space and rating information</p> <p>If the carpark doesn't contain any information related to goods vehicle, this property WOULD be not be provided in response.</p> <p>Enclosed elements include:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>vacancy</b></li> <li>• <b>hourlyCharges</b></li> <li>• <b>dayNightParks</b></li> <li>• <b>monthlyCharges</b></li> <li>• <b>unloadings</b></li> <li>• <b>privileges</b></li> </ul>
<b>HGV</b>	Object	<p>Optional. Placeholder of heavy goods vehicle space and rating information</p> <p>If the carpark doesn't contain any information related to goods vehicle, this property WOULD be not be provided in response.</p> <p>Enclosed elements include:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>vacancy</b></li> <li>• <b>hourlyCharges</b></li> <li>• <b>dayNightParks</b></li> <li>• <b>monthlyCharges</b></li> </ul>

		<ul style="list-style-type: none"> <li>• <b>unloadings</b></li> <li>• <b>privileges</b></li> </ul>
<b>coach</b>	Object	<p>Optional. Placeholder of coach space and rating information</p> <p>If the carpark doesn't contain any information related to coach, this property <b>WOULD</b> be not be provided in response.</p> <p>Enclosed elements include:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>vacancy</b></li> <li>• <b>hourlyCharges</b></li> <li>• <b>dayNightParks</b></li> <li>• <b>monthlyCharges</b></li> <li>• <b>unloadings</b></li> <li>• <b>privileges</b></li> </ul>
<b>motorCycle</b>	Object	<p>Optional. Placeholder of motor cycle space and rating information.</p> <p>If the carpark doesn't contain any information related to motor cycle, this property <b>WOULD</b> be not be provided in response.</p> <p>Enclosed elements include:</p> <ul style="list-style-type: none"> <li>• <b>space</b></li> <li>• <b>vacancy</b></li> <li>• <b>hourlyCharges</b></li> <li>• <b>dayNightParks</b></li> <li>• <b>monthlyCharges</b></li> <li>• <b>privileges</b></li> </ul>
<b>creationDate</b>	String	Mandatory. Creation time in UTC format.
<b>modifiedDate</b>	String	Mandatory. Last modified time in UTC format.
<b>publishedDate</b>	String	Publication time in UTC format.
<b>lastUploadDate</b>	String	Last data upload date from carpark owner in UTC format.
<b><u>ENCLOSED ELEMENTS:</u></b>		
<b>space</b>	Number	Mandatory. Total parking space for this type of vehicle including both electronic and non-electronic vehicles.
<b>spaceDIS</b>	Number	Mandatory. Total Parking space for this electronic vehicle type assigned to disabled persons.
<b>spaceEV</b>	Number	Mandatory. Total Parking space for this electronic vehicle type only.
<b>spaceUNL</b>	Number	Mandatory. Total unloading space for this electronic vehicle type.
<b>vacancy</b>	Number	Mandatory. Available parking space for this type of vehicle including both electronic and non-electronic vehicles.
<b>vacancyDIS</b>	Number	Mandatory. Available parking space for this electronic vehicle type assigned to disabled persons.
<b>vacancyEV</b>	Number	Mandatory. Available parking space for this electronic vehicle type only.

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<b>vacancyUNL</b>	Number	Mandatory. Available unloading space for this electronic vehicle type.
<b>hourlyCharges</b>	[Object]	Optional. Array of hourly charge rules
<b>type</b>	String	Mandatory. The possible values are:  <ol style="list-style-type: none"> <li>1. hourly</li> <li>2. half-hourly</li> </ol>
<b>weekdays</b>	[String]	Mandatory. Indicates which week days the rule applied.  The possible values are:  <ol style="list-style-type: none"> <li>1. MON</li> <li>2. TUE</li> <li>3. WED</li> <li>4. THU</li> <li>5. FRI</li> <li>6. SAT</li> <li>7. SUN</li> <li>8. PH</li> </ol>
<b>excludePublicHoliday</b>	Boolean	Mandatory. Indicates whether the rule is applied to public holiday or not.
<b>periodStart</b>	String	Mandatory. Start time of the rule applied. Example value is "08:00".
<b>periodEnd</b>	String	Mandatory. End time of the rule applied. Example value is "24:00".
<b>price</b>	Number	Mandatory. The rate in Hong Kong dollars.
<b>usageThresholds</b>	[Object]	Optional. Array of usage thresholds which the user is charged per usage basis. Below is an example:  <pre>[   {     "hours":2,     "price":30   } ]</pre> It means the user is charged \$30/hr in the first two hour. Starting from 3 <sup>rd</sup> hour, user is charged at normal price.
<b>hours</b>	Number	Mandatory. The usage threshold in term of hours.
<b>price</b>	Number	Mandatory. The price that user is charged within usage threshold.
<b>covered</b>	String	Mandatory. Indicates whether the parking space is covered or not.  The possible values are:  <ol style="list-style-type: none"> <li>1. covered</li> <li>2. semi-covered</li> <li>3. open-air</li> <li>4. mixed</li> </ol>
<b>remark</b>	String	Optional. Condition this rule applies (e.g. non-resident, stage 4, etc.).  For localized response, it is the remark text in specified locale.
<b>dayNightParks</b>	[Object]	Optional. Array of day night parks rules

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<b>type</b>	String	<p>Mandatory. The possible values are:</p> <ol style="list-style-type: none"> <li>1. day-park</li> <li>2. night-park</li> <li>3. 6-hours-park</li> <li>4. 12-hours-park</li> <li>5. 24-hours-park</li> </ol>
<b>weekdays</b>	[String]	<p>Mandatory. Indicates which week days the rule applied.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. MON</li> <li>2. TUE</li> <li>3. WED</li> <li>4. THU</li> <li>5. FRI</li> <li>6. SAT</li> <li>7. SUN</li> <li>8. PH</li> </ol>
<b>excludePublicHoliday</b>	Boolean	Mandatory. Indicates whether the rule is applied to public holiday or not.
<b>periodStart</b>	String	Mandatory. Start time of the rule applied. Example value is "08:00".
<b>periodEnd</b>	String	Mandatory. End time of the rule applied. Example value is "24:00".
<b>validUntil</b>	String	<p>Mandatory. The possible values are:</p> <ol style="list-style-type: none"> <li>1. no-restrictions</li> <li>2. same-day</li> <li>3. following-day</li> </ol>
<b>validUntilEnd</b>	String	<p>Optional. End time until which x hours parking is valid. Example value is "24:00". For example, if the type is "12-hours-park", validUntil is "same-day" and validUntilEnd is "24:00", it means that the max charge is for each <b>12 hours</b>, calculated from time of entry until <b>24:00 on the same day</b>.</p> <p>Below is an example:</p> <pre>[   {     "type": "24-hours-park",     "price": 85,     "validUntil": "same-day",     "validUntilEnd": "24:00",     "remark": null,     "periodStart": "00:00",     "periodEnd": "24:00",     "excludePublicHoliday": true,     "weekdays": [       "MON",       "TUE",       "WED",       "THU",       "FRI"     ]   } ]</pre>

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		<pre> ] } ] </pre>
<b>price</b>	Number	Mandatory. The rate in Hong Kong dollars.
<b>covered</b>	String	<p>Mandatory. Indicates whether the parking space is covered or not.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>covered</li> <li>semi-covered</li> <li>open-air</li> <li>mixed</li> </ol>
<b>remark</b>	String	<p>Optional. Condition this rule applies (e.g. non-resident, stage 4, etc.).</p> <p>For localized response, it is the remark text in specified locale.</p>
<b>monthlyCharges</b>	[Object]	Optional. Array of monthly charge rules
<b>type</b>	String	<p>Mandatory. The type of monthly charge plans.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>monthly-park</li> <li>monthly-day-park</li> <li>monthly-night-park</li> <li>bimonthly-park</li> <li>bimonthly-day-park</li> <li>bimonthly-night-park</li> <li>quarterly-park</li> <li>quarterly-day-park</li> <li>quarterly-night-park</li> <li>yearly-park</li> <li>yearly-day-park</li> <li>yearly-night-park</li> </ol>
<b>price</b>	Number	Mandatory. The rate in Hong Kong dollars.
<b>ranges</b>	[Object]	<p>Optional. Array of time periods in which monthly charge rule applies particularly for day/night parking. Below is an example:</p> <pre> [   {     "weekdays": [       "MON",       "TUE",       "WED",       "THU",       "FRI"     ],     "excludePublicHoliday": false,     "periodStart": "19:00",     "periodEnd": "09:00"   },   { </pre>

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		<pre> "weekdays": [   "SAT",   "SUN",   "PH" ], "excludePublicHoliday": false, "periodStart": "00:00", "periodEnd": "24:00" } ] </pre> <p>It means monthly charges applied to Mon-Fri 19:00-09:00, Sat/Sun/PH 24hrs</p>
<b>weekdays</b>	[String]	<p>Mandatory. Indicates which week days the rule applied.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. MON</li> <li>2. TUE</li> <li>3. WED</li> <li>4. THU</li> <li>5. FRI</li> <li>6. SAT</li> <li>7. SUN</li> <li>8. PH</li> </ol>
<b>excludePublicHoliday</b>	Boolean	Mandatory. Indicates whether the rule is applied to public holiday or not.
<b>periodStart</b>	String	Mandatory. Start time of the rule applied. Example value is "08:00".
<b>periodEnd</b>	String	Mandatory. End time of the rule applied. Example value is "24:00".
<b>covered</b>	String	<p>Mandatory. Indicates whether the parking space is covered or not.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. covered</li> <li>2. semi-covered</li> <li>3. open-air</li> <li>4. mixed</li> </ol>
<b>reserved</b>	String	<p>Mandatory. Indicates whether the parking space is reserved or not.</p> <p>The possible values are:</p> <ol style="list-style-type: none"> <li>1. reserved</li> <li>2. non-reserved</li> </ol>
<b>remark</b>	String	<p>Optional. Condition this rule applies (e.g. non-resident, stage 4, etc.).</p> <p>For localized response, it is the remark text in specified locale.</p>
<b>unloadings</b>	[Object]	Optional. Array of loading/unloading rules
<b>type</b>	String	<p>Mandatory. The possible values are:</p> <ol style="list-style-type: none"> <li>1. hourly</li> <li>2. half-hourly</li> </ol>
<b>price</b>	Number	Mandatory. The rate in Hong Kong dollars.



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<b>usageThresholds</b>	[Object]	Optional. Array of usage thresholds which the user is charged per usage basis. Below is an example:  <pre>[   {     "hours":2,     "price":30   } ]</pre> <p>It means the user is charged \$30/hr in the first two hours. Starting from 3<sup>rd</sup> hour, user is charged at normal price.</p>
<b>hours</b>	Number	Mandatory. The usage threshold in term of hours.
<b>price</b>	Number	Mandatory. The price that user is charged within usage threshold.
<b>remark</b>	String	Optional. Condition this rule applies (e.g. non-resident, stage 4, etc.).  For localized response, it is the remark text in specified locale.
<b>privileges</b>	[Object]	Optional. Array of privilege rule objects.
<b>weekdays</b>	[String]	Mandatory. Indicates which week days the rule applied.  The possible values are:  <ol style="list-style-type: none"> <li>1. MON</li> <li>2. TUE</li> <li>3. WED</li> <li>4. THU</li> <li>5. FRI</li> <li>6. SAT</li> <li>7. SUN</li> <li>8. PH</li> </ol>
<b>excludePublicHoliday</b>	Boolean	Mandatory. Indicates whether the rule is applied to public holiday or not.
<b>periodStart</b>	String	Mandatory. Start time of the rule applied. Example value is "08:00".
<b>periodEnd</b>	String	Mandatory. End time of the rule applied. Example value is "24:00".
<b>description</b>	String	Mandatory. Description of this privilege. For localized response, it is the remark text in specified locale.