



TimeTec Parking Management System API Specification

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TIMETEC COMPUTING SDN BHD

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DOCUMENT REVISION

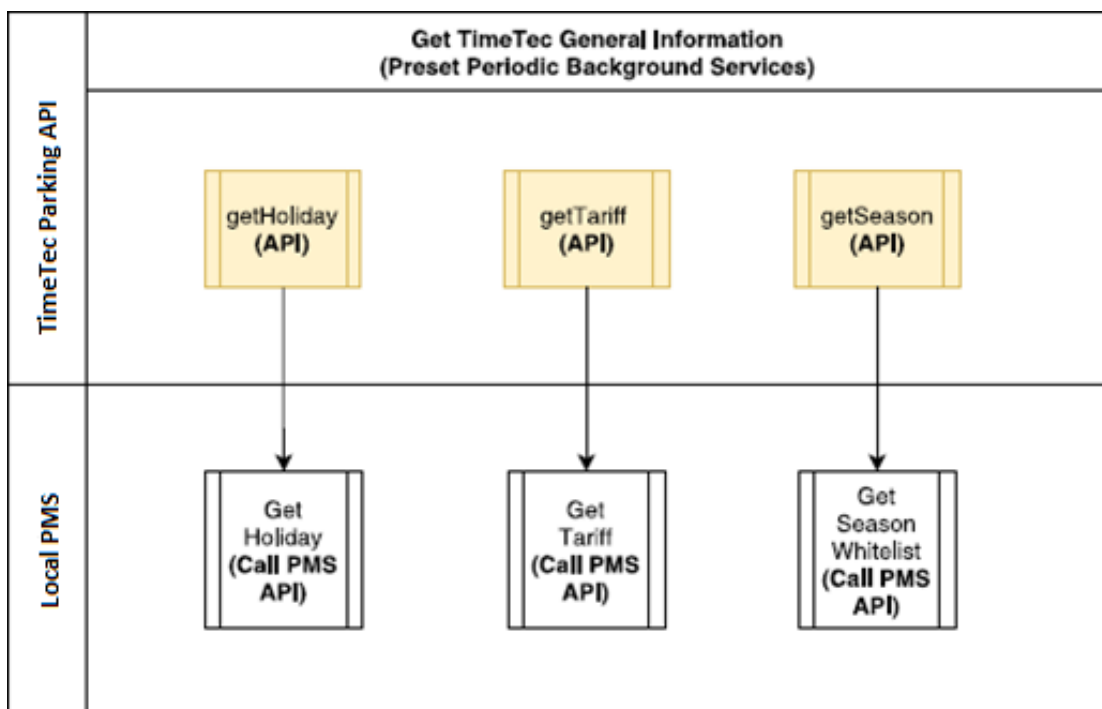
Date	Version	Description	Author	Remark
23/07/2021	V1.0	Initial document	Yen Long	

1.0 TIMETEC PMS INTEGRATION PROCESS FLOWS

This section describes process flows for TimeTec PMS integration.

1.1 Flow Diagram to Download General Information from TimeTec PMS to Local PMS.






The Off-Street Parking System uses these API to download parking information such as holidays, tariff, and season whitelist on a regular basis. Download general information from PMS process flow can be illustrated in below diagram.



2.0 TIMETEC PMS INTEGRATION WEB SERVICES (API)

Swagger URL : <https://pmsapi.timetecparking.com/swagger/index.html>

This section describes list of web services API for parking system to communicate with TimeTec PMS. There are altogether 6 API available as listed below:

Authentication		▼
POST	/api/authentication/login	Get Login Token
Offstreet		▼
GET	/api/offstreet/getHoliday/{buildingDisplayId}/{holidayYear}	Get Building Holidays 
GET	/api/offstreet/getTariffs/{buildingDisplayId}	Get Building Tariffs 
GET	/api/offstreet/getSeason/{buildingDisplayId}	Get Season WhiteList Users 
POST	/api/offstreet/insertEntryPMS	Insert PMS transaction 
POST	/api/offstreet/updateTxnPMS	Update complete transaction 

No	TimeTec PMS API	Description
1	api/authentication/login	API to get login token for an API session. Frequency: For every API session.
2	api/offstreet/getHoliday	API to get building holiday by holiday year. Frequency: Daily
3	api/offstreet/getTariffs	API to get tariff using building ID. Frequency: Manual
4	api/offstreet/getSeason	API to get building season whitelist users. Frequency : Daily
5	api/offstreet/insertEntryPMS	API to insert new transaction to PMS upon entry. (Frequency : Real-Time Sync Record)
6	api/offstreet/updateTxnPMS	API to update completed transactions to PMS upon exit (Frequency : Real-Time Sync Record)

2.1 api/authentication/login

Method : POST

Request URL : <https://pmsapi.timetecparking.com/api/authentication/login>

Parameters:

No	Parameter	Type	Description	Sample
1	*username	string	User name to get login token for API session	"johndoe@gmail.com"
2	*password	string	Password to get login token for API session	"29a1df4646cb3417c19994a59a3e022a"

**Mandatory parameter*

Example:

```
{
  "username": "johndoe@gmail.com",
  "password": "29a1df4646cb3417c19994a59a3e022a"
}
```

CURL:

```
curl -X POST "https://pmsapi.timetecparking.com/api/authentication/login" -H "accept: text/plain" -H "Content-Type: application/json-patch+json" -d '{"username": "johndoe@gmail.com", "password": "29a1df4646cb3417c19994a59a3e022a"}'
```

Response (Success):

No	Key	Data	Description	Sample Return
1	status		0 – Success 1 - Unsuccessful	0
2	data			
2.1		companyId	Company ID	100
2.2		username	User name	"johndoe@gmail.com"
2.3		token	Login token for APoi session	"Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9....."
2.4		expiredIn	Token expiry	1627009702
2.5		utcTimeNow	Current UTC time	"2021-07-23 02:38:22"
2.6		company	{ "id": ID_No, "name": "Op_Co", "timezone": "...", "dst": 0 "taxType": [1-3] "taxPercentage": 6 "currencySymbol": "MYR" }	{ "id": 8, "name": " SCP Parking Sdn BHD ", "timezone": "UTC+08:00", "dst": 0, "taxType": 3, "taxPercentage": 0, "currencySymbol": "MYR" }
3	msg		Message 0 = "Success"	"Success"
4	msgCode		Message code 0 = "Success"	0
5	timestamp		"YYYY-MM-DD HH:MM:SS"	"2021-07-23 02:38:22 "

Example:

```
{
  "status": 0,
  "data": {
    "companyId": 8,
    "username": "johndoe@gmail.com",
    "token": "Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJvbmRkSmpmNHR2ZzJiOGdHRklrcGxhcFdv
d2RROXR6c1paRXo3bnVMY2lzPSIsImp0aSI6IjMwOTc2YTQ0LTA3NDMtNGYzOS1hNTc2LTM1Z
TUxN2VjYWw5OCIsImhhdCI6MTYyNzAwNzkwMiwib2kiOiJlIjoiOCIsImNuYW11IjoU0NQIFBhcmtpbm
U2RulEJIRClmVtIjoiam9obmRvZUBnbWFpbC5jb20iLCJuYmYiOiJlIjoiE2MjcwMDc5MDIsImV4cCI6MT
YyNzAxMDAwMiwiaXNzIjoivGlZVRlY1BNuYlsmF1ZCI6IIBhcmtpbmdEZXXZlbg9wZXJBUEkifQ.w1
oAuA9tqOLymhKI5F_TV8eyP6Zjc1XHTAq7yrI0CNY",
    "expiredIn": 1627009702,
    "utcTimeNow": "2021-07-23 02:38:22",
    "company": {
      "id": 8,
      "name": "SCP Parking Sdn BHD",
      "timezone": "UTC+08:00",
      "dst": 0,
      "taxType": 3,
      "taxPercentage": 0,
      "currencySymbol": "MYR"
    }
  },
  "msg": "Success",
  "msgCode": 0,
  "timestamp": "2021-07-23 02:38:22"
}
```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
2	data	null	null
3	msg	Error message 1 = “Incorrect username and password”	“Incorrect username and password”
4	msgCode	Error code 1 = “Incorrect username and password”	1
5	timestamp	“YYYY-MM-DD HH:MM:SS”	"2021-07-23 03:29:38"

Example:

```
{
  "status": 1,
  "data": null,
  "msg": "Incorrect username and password",
  "msgCode": 1,
  "timestamp": "2021-07-23 03:03:38"
}
```

2.2 api/offstreet/getHoliday

Method : GET

Request URL : <https://pmsapi.timetecparking.com/api/offstreet/getHoliday/6e08baed/2021>

Parameters:

No	Parameter	Type	Description	Sample
1	*buildingDisplayId	string	TimeTec PMS Building ID	"6e08baed"
2	*holidayYear	\$int32	Holiday Year	2021

**Mandatory parameter*

CURL:

```
curl -X GET
"https://pmsapi.timetecparking.com/api/offstreet/getHoliday/6e08baed/2021" -H
"accept: text/plain" -H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJkdC9ZSE1VYk5PbnocXZNck
1xRnhxUSStkTEF4V2RyLy8vZENwV2ZnRE93PSIsImp0aSI6IjJhNmZINDIxLW11NjMt
NDBkZC1iZmFhLWJmYWVmMTU1NGRiZSIsImhhdCI6MTYxMjI0ODI0NywiY2lkIjoiM
TAwliwiY25hbWUiOiJEZWx0YSBaTiBTZG4gQmhhkliwidW0iOiJkZWx0YUBnbWFpbC
5jb20iLCJuYmYiOiJlY2IyNTgyNDcslmV4cCI6MTYxMjI0ODI0NywiY2lkIjoiMjI0
ODI0NywiY2lkIjoiMjI0ODI0NywiY2lkIjoiMjI0ODI0NywiY2lkIjoiMjI0ODI0Nywi
RIY1BNUyIsImF1ZCI6IiBhcmtpbmdEZXZlOG9wZXJBUEkifQ.ZT-
cfeEgozPKon2mhHHZgPBSWOv4BKUEtMilx9oBxgs"
```

Response (Success):

No	Key	Data	Description	Sample Return
1	status		0 – Success 1 - Unsuccessful	0
2	data			
2.1		Id	Holiday ID	8612
2.2		date	Date of holiday	"2021-01-01"
2.3		holidayName	Holiday name	"New Year (Regional)"
3	msg		Message 0 = "Success"	"Success"
4	msCode		Message code 0 = "Success"	0
5	timeStamp		"YYYY-MM-DD HH:MM:SS"	" 2021-07-23 03:03:38"

Example:

```
{
  "status": 0,
  "data": [
    {
      "id": 5965,
      "date": "2020-01-01",
      "holidayName": "New Year's Day (regional holiday)"
    },
    {
      "id": 5967,
      "date": "2020-01-25",
      "holidayName": "Chinese Lunar New Year's Day"
    },
    {
      "id": 5968,
      "date": "2020-01-26",
      "holidayName": "Second day of Chinese Lunar New Year"
    },
    {
      "id": 5981,
      "date": "2020-05-01",
      "holidayName": "Labour Day"
    },
    {
      "id": 6014,
      "date": "2020-12-25",
      "holidayName": "Christmas Day"
    }
  ],
  "msg": "Success",
  "msgCode": 0,
  "timestamp": "2021-07-23 03:09:51"
}
```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
2	data	null	null
3	msg	Error message: 1 = Invalid API format 2 = Invalid building ID 3 = Invalid year 4 = Holiday list does not exist	"Invalid building ID"
4	msgCode	Error code: 1 = Invalid API format 2 = Invalid building ID 3 = Invalid year 4 = Holiday list does not exist	2
5	timestamp	"YYYY-MM-DD HH:MM:SS"	"2021-07-23 03:09:51"

Example:

```
{
  "status": 1,
  "data": null,
  "msg": "Invalid building id",
  "msgCode": 2,
  "timestamp": "2021-07-23 03:16:14"
}
```

2.3 api/offstreet/getTariffs

Method : GET

Request URL : <https://pmsapi.timetecparking.com/api/offstreet/getTariffs/6e08baed>

Parameters:

No	Parameter	Type	Description	Sample
1	*buildingDisplayId	string	TimeTec PMS Building ID	6e08baed

*Mandatory parameter

CURL:

```
curl -X GET "https://pmsapi.timetecparking.com/api/offstreet/getTariffs/6e08baed"
-H "accept: text/plain" -H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJkdC9ZSE1VYk5PbnozcXZNck
1xRnhxUSStkTEF4V2RyLy8vZENwV2ZNR93PSlImp0aSI6IjJhNmZINDIxLW11NmMt
NDBkZC1iZmFhLWJmYWVmMTU1NGRiZSIsImhhdCI6MTYxMjM0ODI0NywiY2IkljoiM
TAwliwiY25hbWUiOiJEZwX0YSBaTiBTZG4gQmhhkliwidW0iOiJkZWx0YUBnbWVpbC
5jb20iLCJuYmYiOiJlY2MTlyNTgyNDcslmV4cCI6MTYxMjM0MDM0NywiXNzIjoiVGltZV
RIY1BNUyIsImF1ZCI6IiBhcmtpbmdEZXXZlbg9wZXJBUEkifQ.ZT-
cfeEgozPKon2mhHHZgPBSWOv4BKUEtMilx9oBxgs"
```

Response (Success):

No	Key	Data	Description	Sample Return
1	status		0 – Success 1 - Unsuccessful	0
2	data			
2.1		Id	Tariff ID	550
2.2		vehicleType	Car / Motorcycle / Bas / Lorry	Car
2.3		name	Name of Tariff File	Transient Hourly
2.4		tariffDetails	{}	
2.4.1		effectiveStartDate	Season Start Date	"2021-01-01"
2.4.2		effectiveEndDate	Season Expiry Date	"2021-12-31"
2.4.3		tariffSettings	{}	
2.4.3.1		dataType	MX = Max fee per day EN – Entry Grace EX = Exit Grace (Not for TnG) TL = Tariff Line FR = Free	{ "dataType": "TL", "day": "0", "startTime": "00:00", "endTime": "23:59", "sequenceType": "R", "blockDuration": 60,

			<p>*<u>Note 1</u>: Do need to send MX, EN, EX or SC if these parameters are not applicable or zero</p> <p>*<u>Note 2</u>: FR is only required if TL (Tariff Line) definition range do not cover full 24 hours and also for days where parking is free e.g. free parking from 6pm to 7am next day or free parking during weekend.</p> <p>SC = Split Charge (specify the block time to split charges when block time is less than the tariff time interval)</p> <p>CO = Cross Day Options (sequenceType= [1 or 2]; 1:Remain Charge Rate As Same Day; 2:Split Charge Rate Into Different Day)</p> <p>CT = Cross Day Time (Block Duration=Time e.g. "00:00")</p>	"chargePerBlock": 1 }
2.4.3.2		day	0 = Sunday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday 7 = Sunday H = Holiday	1
2.4.3.3		startTime	HH:MM	"00;00" if dataType <> "TL"
2.4.3.4		endTime	HH:MM	"00;00" if dataType <> "TL"
2.4.3.5		sequenceType	0 if dataType is not "TL" 1 = 1st block duration	F

			2 = 2nd block duration 3 = 3rd block duration N = n th block duration R = Subsequent block duration F = Flat Rate E = Per Entry	
2.4.3.6		blockDuration	Duration in Mins	60
2.4.3.7		chargePerBlock	Parking Charge	1
3	msg		Message code0 = "Success"	"Success"
4	Msg Code		Message code0 = "Success"	0
5	time Stamp		"YYYY-MM-DD HH:MM:SS"	"2021-07-23 03:19:20 "

Example:

```
{
  "status": 0,
  "data": [
    {
      "id": 590,
      "vehicleType": "Car",
      "name": "Main Entrance",
      "tariffDetails": [
        {
          "effectiveStartDate": "2021-07-01",
          "effectiveEndDate": "2021-12-31",
          "tariffSettings": [
            {
              "dataType": "MX",
              "day": "0",
              "startTime": "00:00",
              "endTime": "00:00",
              "sequenceType": "0",
              "blockDuration": 0,
              "chargePerBlock": 30
            },
            {
              "dataType": "EN",
              "day": "0",
              "startTime": "00:00",
              "endTime": "00:00",
              "sequenceType": "0",
              "blockDuration": 15,
              "chargePerBlock": 0
            },
            {
              "dataType": "CO",
              "day": "0",
              "startTime": "00:00",
              "endTime": "00:00",
              "sequenceType": "1",
              "blockDuration": 0,
              "chargePerBlock": 0
            }
          ]
        }
      ]
    }
  ]
}
```

```

},
{
  "dataType": "CT",
  "day": "0",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "EX",
  "day": "0",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "SC",
  "day": "0",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "TL",
  "day": "0",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "1",
  "blockDuration": 60,
  "chargePerBlock": 3
},
{
  "dataType": "TL",
  "day": "0",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "R",
  "blockDuration": 30,
  "chargePerBlock": 1
},
{
  "dataType": "MX",
  "day": "1",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 30
},
{
  "dataType": "EN",
  "day": "1",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 15,
  "chargePerBlock": 0
},
{

```



```

"dataType": "CO",
"day": "1",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "1",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "CT",
"day": "1",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "EX",
"day": "1",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "SC",
"day": "1",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "TL",
"day": "1",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "1",
"blockDuration": 60,
"chargePerBlock": 3
},
{
"dataType": "TL",
"day": "1",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "R",
"blockDuration": 30,
"chargePerBlock": 1
},
{
"dataType": "MX",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 30
},
{

```

```

"dataType": "EN",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 15,
"chargePerBlock": 0
},
{
"dataType": "CO",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "1",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "CT",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "EX",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "SC",
"day": "2",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "TL",
"day": "2",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "1",
"blockDuration": 60,
"chargePerBlock": 3
},
{
"dataType": "TL",
"day": "2",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "R",
"blockDuration": 30,
"chargePerBlock": 1
},
{
"dataType": "MX",
"day": "3",

```

```
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 30
},
{
  "dataType": "EN",
  "day": "3",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 15,
  "chargePerBlock": 0
},
{
  "dataType": "CO",
  "day": "3",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "1",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "CT",
  "day": "3",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "EX",
  "day": "3",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "SC",
  "day": "3",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "TL",
  "day": "3",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "1",
  "blockDuration": 60,
  "chargePerBlock": 3
},
{
  "dataType": "TL",
  "day": "3",
  "startTime": "00:00",
  "endTime": "23:59",
```

```
"sequenceType": "R",
"blockDuration": 30,
"chargePerBlock": 1
},
{
  "dataType": "MX",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 30
},
{
  "dataType": "EN",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 15,
  "chargePerBlock": 0
},
{
  "dataType": "CO",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "1",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "CT",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "EX",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "SC",
  "day": "4",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "TL",
  "day": "4",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "1",
  "blockDuration": 60,
```

```
"chargePerBlock": 3
},
{
  "dataType": "TL",
  "day": "4",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "R",
  "blockDuration": 30,
  "chargePerBlock": 1
},
{
  "dataType": "MX",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 30
},
{
  "dataType": "EN",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 15,
  "chargePerBlock": 0
},
{
  "dataType": "CO",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "1",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "CT",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "EX",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "SC",
  "day": "5",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{

```

```
"dataType": "TL",
"day": "5",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "1",
"blockDuration": 60,
"chargePerBlock": 3
},
{
"dataType": "TL",
"day": "5",
"startTime": "00:00",
"endTime": "23:59",
"sequenceType": "R",
"blockDuration": 30,
"chargePerBlock": 1
},
{
"dataType": "MX",
"day": "6",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 30
},
{
"dataType": "EN",
"day": "6",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 15,
"chargePerBlock": 0
},
{
"dataType": "CO",
"day": "6",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "1",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "CT",
"day": "6",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "EX",
"day": "6",
"startTime": "00:00",
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
"dataType": "SC",
"day": "6",
"startTime": "00:00",
```

```
"endTime": "00:00",
"sequenceType": "0",
"blockDuration": 0,
"chargePerBlock": 0
},
{
  "dataType": "TL",
  "day": "6",
  "startTime": "00:00",
  "endTime": "23:59",
  "sequenceType": "1",
  "blockDuration": 60,
  "chargePerBlock": 3
},
{
  "dataType": "MX",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 30
},
{
  "dataType": "EN",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 15,
  "chargePerBlock": 0
},
{
  "dataType": "CO",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "1",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "CT",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "EX",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
  "blockDuration": 0,
  "chargePerBlock": 0
},
{
  "dataType": "SC",
  "day": "H",
  "startTime": "00:00",
  "endTime": "00:00",
  "sequenceType": "0",
```

```

    "blockDuration": 0,
    "chargePerBlock": 0
  },
  {
    "dataType": "TL",
    "day": "H",
    "startTime": "00:00",
    "endTime": "23:59",
    "sequenceType": "1",
    "blockDuration": 60,
    "chargePerBlock": 3
  },
  {
    "dataType": "TL",
    "day": "H",
    "startTime": "00:00",
    "endTime": "23:59",
    "sequenceType": "R",
    "blockDuration": 30,
    "chargePerBlock": 1
  }
]
}
],
"msg": "Success",
"msgCode": 0,
"timestamp": "2021-07-23 03:19:20"
}

```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
	data	null	null
3	Msg	0 = Success 1 = Invalid API format 2 = Invalid building ID 3 = Tariff does not exist	“Invalid Building ID”
4	msgCode	0 = Success 1 = Invalid API format 2 = Invalid building ID 3 = Tariff does not exist	2
5	timestamp	“YYYY-MM-DD HH:MM:SS”	“2021-07-23 03:24:02”

Example:

```

{
  "status": 1,
  "data": null,
  "msg": "Invalid building id",
  "msgCode": 2,
  "timestamp": "2021-07-23 03:24:02"
}

```


2.4 api/offstreet/getSeason

Method : GET

Request URL : <https://pmsapi.timetecparking.com/api/offstreet/getSeason/6e08baed?timestamp=2021-01-20%2012%3A38%3A01>

Parameters:

No	Parameter	Type	Description	Sample
1	*buildingId	string	TimeTec PMS Building ID	"6e08baed"
2	timestamp	string (\$date-time)	"YYYY-MM-DD HH:MM:SS"	"2021-01-01 00:01:00"

*Mandatory parameter

CURL

curl -X GET

```
"https://pmsapi.timetecparking.com/api/offstreet/getSeason/6e08baed?timestamp=2020-02-02%2009%3A53%3A35" -H "accept: text/plain" -H "Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWUiOiJkdC9ZSE1VYk5PbnocXZNck1xRnhxUStkTEF4V2RyLy8vZENwV2ZnRE93PSIsImp0aSI6IjJhNmZINDIxLW11NjMtNDBkZC1iZmFhLWJmYWVmMTU1NGRiZSIsImhhdCI6MTYxMjI2MDM0NywiY2IkljoiMTAwliwiY25hbWUiOiJEZWx0YSBaTiBTZG4gQmhlkiwidW0iOiJkZWx0YUBnbWFpbC5jb20iLCJuYmYiOiJlY2IyNTgyNDcsImV4cCI6MTYxMjI2MDM0NywiY2IkljoiVGltZVRIY1BNUyIsImF1ZCI6IiBhcmtpbmdEZXZlbiB9wZXBUEkifQ.ZT-cfeEgozPKon2mhHHZgPBSWOv4BKUEtMilx9oBxgs"
```

Response (Success):

No	Key	Data	Description	Sample Return
1	status		0 – Success 1 - Unsuccessful	0
3	data			
3.1		userId	User ID	533
3.2		buildingDisplayId	TimeTec PMS Building ID	6e08baed
3.3		idNo	Season Card ID No	1648209775
3.4		idType	QR Code = 1 TnG = 2 Visa = 3 Mastercard = 4 NFC Tag = 5 Season = 6 TnG ABT = 7 BLE = 8 RFID = 9	6
3.5		startDate	Season Start Date	2021-01-21
3.6		expiryDate	Season Expiry Date	2021-02-20
3.7		recordType	"1" for add/update,	1

			"0" for delete	
3.8		status	Status -> 0:Terminated, 1: Active,2: Pending Approve, 3: Rejected, 4: Pending CHANGE Card, 5: Pending Terminate, 6: Expired	1
3	msg		Message 0 = "Success"	"Success"
	Msg Code		Message 0 = "Success"	0
4	time Stamp		"YYYY-MM-DD HH:MM:SS"	"2021-07-23 03:29:38"

Example:

```
{
  "status": 0,
  "data": [
    {
      "userId": 228,
      "buildingDisplayId": "6e08baed ",
      "idNo": "3097235503",
      "idType": 6,
      "startDate": "2021-06-30",
      "endDate": "2021-07-29",
      "recordType": 1,
      "status": 1
    }
  ],
  "msg": "Success",
  "msgCode": 0,
  "timestamp": "2021-07-23 03:29:38"
}
```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
	data	null	null
3	msg	0 = Success 1 = Invalid API format 2 = Invalid building ID	“Invalid building ID”
4	msgCode	0 = Success 1 = Invalid API format 2 = Invalid building ID	2
5	timestamp	“YYYY-MM-DD HH:MM:SS”	“2021-07-23 03:29:38”

Example:

```
{  
  "status": 1,  
  "data": null,  
  "msg": "Invalid building id",  
  "msgCode": 2,  
  "timestamp": "2021-07-23 03:31:25"  
}
```

2.5 api/offstreet/insertEntryPMS

Method : POST

Request URL : <https://pmsapi.timetecparking.com/api/offstreet/insertEntryPMS>

Parameters:

No	Parameter	Type	Description	Sample
1	*buildingDisplayId	string	TimeTec PMS Building ID	"6e08baed"
	"operatorID"	string	Operator ID	"TT"
	"siteID"	string	Site ID	"A01"
2	*entryTerminalId	string	Terminal ID	"T01"
3	*inTime	string (\$date-time)	yyyy-mm-dd hh:mm:ss.xxx	"2021-02-02 09:29:25.620"
4	*idType	\$Int32	QR Code = 1 TnG = 2 Visa = 3 Mastercard = 4 NFC Tag = 5 Season = 6 TnG ABT = 7 BLE = 8 RFID = 9	6
5	*idNo	string	Refer to ID NO section for details	"1648064559"
6	*buildingTariff	\$Int64	Building Tariff ID	550
7	*buildingTimezone	string	UTC Timezone	"UTC+08:00"

**Mandatory parameter*

Example:

```
{
  "buildingDisplayId": "6e08baed",
  "operatorID": "TT",
  "siteID": "A01",
  "terminalID": "T01",
  "inTime": "2021-02-02 09:29:25.620",
  "idType": 6,
  "idNo": "1648064559",
  "buildingTariffId": 550,
  "buildingTimezone": " UTC+08:00"
}
```

CURL:

```
curl -X POST "https://pmsapi.timetecparking.com/api/offstreet/insertEntryPMS" -H
"accept: text/plain" -H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJkdC9ZSE1VYk5PbnocXZNck
1xRnhxUStkTEF4V2RyLy8vZENwV2ZNRE93PSIsImp0aSI6IjJhNmZlNDIxLW11NjMt
NDBkZC1iZmFhLWJmYWVmMTU1NGRiZSIsImh0I6MTYxMjI0ODI0NywiY2IkljoiM
TAwliwiY25hbWUiOiJEZWX0YSBaTiBTZG4gQmhkliwidW0iOiJkZWx0YUBnbWFpbC
5jb20iLCJuYmYiOiJlY2MTIyNTgyNDcsImV4cCI6MTYxMjI0ODI0NywiY2IkljoiM
RIY1BNUyIsImF1ZCI6IiBhcmtpbmdEZXZlbnG9wZXJBUEkifQ.ZT-
cfeEgozPKon2mhHHZgPBSWOv4BKUEtMilx9oBxgs" -H "Content-Type:
application/json-patch+json" -d '{"buildingDisplayId": "6e08baed", "operatorID":
"TT", "siteID": "A01", "terminalID": "T01", "inTime": "2021-02-02
09:29:25.620", "idType": 5, "idNo": "1648064559", "buildingTariffId": 550,
"buildingTimezone": "UTC+08:00"}'
```

Response (Success):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	0
2	data	null	null
2.1		transactionId	3414
2.2		serId	536
3	msg	0 = Success	"Success"
4	msgCode	0 = Success	0
5	timestamp	"YYYY-MM-DD HH:MM:SS"	"2021-07-23 03:09:51"

Example:

```
{
  "status": 0,
  "data": {
    "transactionId": 3414,
    "userId": 536
  },
  "msg": "Success",
  "msgCode": 0,
  "timestamp": "2021-07-23 03:09:51"
}
```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
2	data	null	null
3	msg	0 = Success 1 = Invalid API format 2 = Invalid building ID 3 = Invalid Terminal OO:SS:TT 4 = Invalid idType 5 = Invalid idNo (for idType=5) 6 = Invalid Building Tariff ID	“Invalid Terminal TT:A01:T03”
4	msgCode	0 = Success 1 = Invalid API format 2 = Invalid building ID 3 = Invalid Terminal OO:SS:TT 4 = Invalid idType 5 = Invalid idNo (for idType=5) 6 = Invalid Building Tariff ID	3
5	timestamp	“YYYY-MM-DD HH:MM:SS”	“2021-07-23 03:29:38”

Example:

```
{
  "status": 1,
  "data": null,
  "msg": "Invalid Terminal - TT:A01:T:03",
  "msgCode": 0,
  "timestamp": "2021-07-23 03:09:51"
}
```

2.6 api/offstreet/updateTxnPMS

Method : POST

Request URL : <https://pmsapi.timetecparking.com/api/offstreet/updateTxnPMS>

Parameters:

No	Parameter	Type	Description	Sample
1	*transactionID	\$Int64	PMS Transaction ID	3414
2	*transactionType	\$Int32	Transaction Type 0 = New 1 = Update	0
3	*userId	\$Int64	User ID	"536"
4	*referenceNo	string	Txn Reference No for PMS to update record	"TTA01T0116118 4293 8"
5	*operatorID	string	Operator ID	"TT"
6	*siteID	string	Site ID	"A01"
7	*terminalID	string	Terminal ID	"T02"
8	*outTime	string (\$date-time)	yyyy-mm-dd hh:mm	"2021-02-02 11:33:25"
9	*idType	\$Int32	QR Code = 1 TnG = 2 Visa = 3 Mastercard = 4 NFC Tag = 5 Season = 6 TnG ABT = 7 BLE = 8 RFID = 9	6
10	idNo	string	Card Serial No	"1648064559"
11	*merchantId	string	Merchant ID	"112233"
12	*merchant DiscAmt	number (\$double)	Merchant Discount Amt	1
13	*paymentStatus	\$Int32	Payment Status "0" = Not paid "1" = Paid "2" = Incomplete	1
14	*amount BeforeTax	number (\$double)	Charges Before Tax	2
15	*taxPercentage	number (\$double)	Tax Percentage	6
16	*taxAmount	number (\$double)	Tax Amount	0.12
17	*surcharge	number (\$double)	Surcharge Amount	0
18	*totalAmount	number (\$double)	Total Charges	2.12
19	*parkingDuration	\$Int32	Parking Duration (min)	120

20	*building Timezone	string	UTC Timezone	"UTC+08:00"
----	-----------------------	--------	--------------	-------------

**Mandatory parameter*

Example:

```
{
  "transactionId": 3414,
  "transactionType": 0,
  "userId": 536,
  "referenceNo": "TTA01T011611842938",
  "operatorID": "TT",
  "siteID": "A01",
  "terminalID": "T02",
  "outTime": "2021-02-02 11:33:25",
  "idType": 6,
  "idNo": "1648064559",
  "merchantId": "112233",
  "merchantDiscAmt": 0.00,
  "paymentStatus": 1,
  "amountBeforeTax": 2.00,
  "taxPercentage": 6.0,
  "taxAmount": 0.12,
  "surcharge": 0.00,
  "totalAmount": 2.12,
  "parkingDuration": 120,
  "buildingTimezone": "UTC+08:00"
}
```

CURL:

```
curl -X POST "https://pmsapi.timetecparking.com/api/offstreet/updateTxnPMS" -H
"accept: application/json" -H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJkdC9ZSE1VYk5PbnocXZNck
1xRnhxUStkTEF4V2RyLy8vZENwV2ZNRRE93PSlslmp0aSI6IjJhNmZINDIxLWl1NjMt
NDBkZC1iZmFhLWJmYWVmMTU1NGRiZSIsImhhdCI6MTYxMjI0ODI0NywiY2IkljoiM
TAwliwiY25hbWUiOiJEZWx0YSBaTiBTZG4gQmhhkiwidW0iOiJkZWx0YUBnbWFpY25j
b20iLCJuYmYiOiJlY2MTIyNTgyNDcsImV4cCI6MTYxMjI0ODI0NywiXNzIjoiVGltZV
RIY1BNyYlImF1ZCI6IiBhcmtpbmdEZXZlbg9wZXJBUEkifQ.ZT-
cfeEgozPKon2mhHHZgPBSWOv4BKUEtMilx9oBxgs" -H "Content-Type:
application/json-patch+json" -d '{"transactionId": 3414, "transactionType": 0,
"userId": 536, "referenceNo": "TTA01T011611842938", "operatorID": "TT",
"siteID": "A01", "terminalID": "T02", "outTime": "2021-02-02 11:33:25",
"idType": 5, "idNo": "1648064559", "merchantId": "112233",
"merchantDiscAmt": 0.00, "paymentStatus": 1, "amountBeforeTax": 2.00,
"taxPercentage": 6.0, "taxAmount": 0.12, "surcharge": 0.00, "totalAmount": 2.12,
"parkingDuration": 120, "buildingTimezone": "UTC+08:00"}'
```


Response (Success):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	0
2	data	null	null
3	msg	0 = Success	“Success”
4	msgCode	0 = Success	0
5	timestamp	“YYYY-MM-DD HH:MM:SS”	“2021-07-23 03:29:38”

Example:

```
{  
  "status": 0,  
  "data": null,  
  "msg": "Success",  
  "msgCode": 0,  
  "timestamp": "2021-07-23 03:09:51"  
}
```

Response (Fail):

No	Key	Description	Sample Return
1	status	0 – Success 1 - Unsuccessful	1
2	data	null	null
3	msg	0 = Success 1 = Invalid API format 2 = Invalid Transaction ID 3 = Invalid User ID 4 = Invalid Building ID 5 = Invalid Terminal OO:SS:TT 6 = Invalid ID Type 7 = Invalid ID No (ID Type=5) 8 = Invalid Tariff ID 9 = Transaction Already Updated	“Transaction already updated”
4	msgCode	0 = Success 1 = Invalid API format 2 = Invalid Transaction ID 3 = Invalid User ID 4 = Invalid Building ID 5 = Invalid Terminal OO:SS:TT 6 = Invalid ID Type 7 = Invalid ID No (ID Type=5) 8 = Invalid Tariff ID 9 = Transaction Already Updated	9
5	timestamp	“YYYY-MM-DD HH:MM:SS”	“2021-07-23 03:09:51”

Example:

```
{
  "status": 1,
  "data": null,
  "msg": "Transaction already updated",
  "msgCode": 0,
  "timestamp": "2021-07-23 03:09:51"
}
```

3.0 APPENDIX

3.1 Card ID No Format

Below are sample of the card serial number for each ID Type.

ID Type	ID Type Description	Data Type	Description	ID NO Sample
1	TnG	Varchar(30)	Card No	1619832527
2	ABT	Varchar(30)	Card No	1648157231
3	RFID	Varchar(30)	Card No	E28011052000791A9D7E0A1C
4	BLE	Varchar(30)	Member No	1648209775
5	Season	Varchar(30)	Season Card No	1601399887
6	Paywave Visa	Varchar(30)	Card No	4628XXXXXXXXXX2826
7	Paypass Master	Varchar(30)	Card No	5523XXXXXXXXXX1566