# SMART PARKING SYSTEM 1.1

# **ADMINISTRATION PORTAL**

# FOR CARPARK OPERATOR

# **USER MANUAL**

# VERSION 1.1

# 8.10.2021

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# **1. INTRODUCTION**

## 1.1 Purpose

### 1.1.1 Main Concept and Differentiation

Smart Parking System (hereafter called SPS) aims to manage various kinds of parking spaces (e.g. Multi-Storey Carparks, Off-street Carparks and Metered Parking Space) and vehicle types (e.g. Private cars, Light Goods Vehicles, Heavy Goods Vehicles, Coaches and Motor cycles) in an integrated system.



## 1.2 Scope

This document is related to the release of Smart Parking System version 1.0. The revision of version 1.1 is related to the update of Sections 3.1.7, 3.1.8 and 3.4.

## 1.3 Glossary

- **Carpark Administrator** The representative of Carpark Operator who maintains the carpark information and Access Keys in Smart Parking System.
- **Carpark Application** The external application that keep traces of vacant parking space. It can be a cashier operated computer terminal or an automatic vehicle counting system located at the entrance and exit.

Carpark Operator - The carpark management company which manages the carpark operation.

**Carpark Server** – The external server that is developed by Carpark Operator in order to collect vacant parking space among one/more than one carparks in propriety way. It encapsulates parking vacancy data through Vacancy APIs defined by Smart Parking System.

Check-in Staff – The operational staff who operates tills and cash handling in carpark.

**MyKE Mobile App** – The "My Kowloon East" (MyKE) mobile application serves as an interactive platform for real time data sharing. One of the features is to provide real-time parking vacancy information in Kowloon East and San Po Kong Business Area.

**REST API** – Vacancy APIs are used for external applications to get and update parking vacancy data.

**SPS Administration Portal** – It is a web application for Carpark Administrator to view and update the carpark information and Access Keys.

**SPS Terminal** – A multiple platform application provided for every carpark to update parking vacancy.

# 2. SPS ADMINISTRATION PORTAL INTERFACE

The User Manual provides a detailed description of all SPS administration portal's features.

# 2.1 Portal Requirements

Check your computer requirement to run SPS Administration Portal, including

- Windows 7 or above, or Apple OS X 10.9 or above;
- 128MB RAM;
- 100MB free disk space;
- An Intel Pentium 4 processor or above which is SSE2 capable;
- Internet connection; and
- One of the following web browsers:
  - Chrome (stable and canary channel);
  - Firefox;
  - Microsoft Internet Explorer 9.0 or later;
  - Opera; and
  - Safari.

## 2.2 Navigation Menu

The main menu at the top of the page allows you to navigate through four major areas, which describe in later sections for more details:

- Carpark Management;
- Pull Service Registration;
- SPS Terminal App Download; and
- Account Setting.

	Carpark Management	S	PS Terminal App Download	
Smart Parking System	n 😝 My Carparks	N Pull Service	▲ Download	👗 Demo User 👻
		1		
	Pull	Service Registration		Account Setting

# 3. FUNCTIONS

## 3.1 Carpark Management

Carpark management gives every carpark administrator to manage their carparks in a systematic way.

## 3.1.1 My Carparks

This feature allows every carpark operator to search their own carpark(s), and to navigate other carparks' feature page.

				All Status •			Search Ci
All Na	tures •	All Parking Types	All Distr	icts •	Q Search		
Total: 12							Sorting
	lame +	Type o	Published o	Modified Date :	Last Upload Date o	Actions	
Yau Ma Te 油麻地停車	i Car Park 靖	Multi-storey Carpark Building	Yes	Sep 10, 2015 4:08:11 PM	Sep 18, 2015 2:28:54 PM	/ a 8	
Tsuen Wa 至/電停車場	Car Park	Multi-storey Carpark Building	Yes	Sep 10, 2015 4:22:17 PM	Nov 25, 2015 3:15:44 PM	/ 4 ₿	Edit C
Tin Hau C 天后停車湖	r Park	Multi-storey Carpark Building	Yes	Sep 10, 2015 4:43:09 PM	Jul 12, 2016 2:54:14 PM	1	
Sheung Si 上水泊車制	ui Park-and-Ride 成停車場	Multi-storey Carpark Building	Yes	Sep 10, 2015 4:58:42 PM		8	Manage Carparl
Sheung Fu Park 雙鳳術停車	ing Street Car 靖	Multi-storey Carpark Building	Yes	Sep 14, 2015 11:30:45 AM	Sep 17, 2015 4:16:55 PM	8	Delete 0
Shau Kei \ 简就准停#	Van Car Park 場	Multi-storey Carpark Building	Yes	Sep 10, 2015 4:09:12 PM	Nov 25, 2015 3:18:45 PM	1 a. 8	
Rumsey S 林士街停車	reet Car Park 矯	Multi-storey Carpark Building	Yes	Oct 15, 2015 4:56:20 PM	Jun 7, 2016 6:57:00 PM	/ 4 8	
Murray Ro 美利道停車	ad Car Park 場	Multi-storey Carpark Building	Yes	Jul 14, 2016 3:27:34 PM	Jul 13, 2016 12:15:41 PM	1 a	
Kwai Fong 荻芳停車場	Car Park	Multi-storey Carpark Building	Yes	Jan 29, 2016 11:48:38 AM	Jul 12, 2016 10:42:37 AM	1 a	
Kennedy T 堅尼地城的	bwn Car Park 車場	Multi-storey Carpark Building	Yes	Oct 28, 2015 5:10:30 PM	Mar 2, 2016 12:03:32 PtM	1 a. 8	
	2 .				10 25	50 100	——— Paging To

- The search results are sorted by the last modified date as default. However, you can arrange the order result by pressing either **Sort Ascending** or **Sort Descending** button at the column label in the search results.
- You can narrow down your search result using multiple criteria such as carpark name, address, published status, nature, parking type, district, etc.
- The paging toolbar allows you set the current page number and the number of carparks per page.

- 3 small action buttons for each carpark, i.e.
  - *I* button for editing basic carpark information;
  - Substitution for managing the access key and secret in Parking Vacancy APIs and SPS Terminal app; and
  - **button for removal of the carpark under your purview.** Note: The removed carpark can be recovered once confirmed.
- Add carpark button for adding a new carpark under your purview.

## 3.1.2 Add Carpark

This feature allows every carpark administrator to create a new carpark and input the basic carpark information in **General** tag. The updates of parking rates and data permission are available in Edit Carpark page.

d Canacili						
d Carpark						
Seneral						
General						
Name (in English)						
Name (in Chinese)						
, ,						
Nature	Commercial	• Туре	Multi-storey Carpark Bui	iding •		
Photo	+					
External ID						
Location & Conta	ict					
Address (in English)	Unit	· ·		Floor		
	Type of Housing					
		Building		•		
	Building Name					
	* Street Name			Building No		
	*District	Admiralty		• Region	нк	*
Address (in Chinese)	單位			* 樓層		
	房屋類型	樓宇		*		
	樓宇名稱					
	*海湖			建設用用		
	DITE			ALTWEE THAT		
	*地區	金遣		* 地域	香港	¥
Latitude	20.05	*Longitude		2007		
	22.25		114.16666	5067		
TAAAA						and the second
				and transien	- - Votat	
Contact No			Hada To.	5.0.	e in for	al a
Contact No Website			add for	San roomine	e voter	HH HH Leafet
Contact No Website			uau fa	sat toomen		Di Hit
Contact No Website Facility			uda fa	set conner	e verter te	D) HH Leafet
Contact No Website Facility Opening Hours	•		uda fu	set conner		B H Lastet
Contact No Website Facility Opening Hours Height Limit			uan to.	Sant converse		H H Lantet
Contact No Website Facility Opening Hours Height Limit Grace Penid Bawaan Mathori	• • •		state Tree	sast converse		R H H
Contact No Website Facility Opening Hours Height Limit Orace Period Payment Method		EPS Visa Master	utionPay Card C Alpay	Autopay Station		Ri H H Landst
Contact No Website Facility Opening Hours Height Limit Grace Period Payment Method Facilities Closed	Cash © Octopus     Ev Charger Stator	EPS Visa Master     Disabilities Uploading&U	utionPay Card C Alipay	Autopay Station Valet Parking	e 	Ri Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi
Contact No Contact No Website Facility Opening Hours Height Limit Grace Period Payment Method Facilities Closed	Cash © Octopus     Ev Charger Station	EPS Vba Master Disabilities Upioading&U	uar no.	Autopay Station		R H

The detailed definitions of fields are as below:

- Name (in English): Name of carpark in English. The first character of each word <u>must</u> be in capital letter.
- Name (in Chinese): Name of carpark in Traditional Chinese.
- Nature: It indicates whether the carpark is belonged to *Government* premises or *Commercial* locations.
- **Type**: Type of parking facilities, i.e. *Multi-storey Carpark Building*, *Off-Street Parking* or *Parking Meters*.
- **Photo**: Image of carpark entrance. Press + button to insert the image.

- **Owner**: Contact point information of car park.
- External ID: Unique carpark identifier in carpark server, which is used in Pull Service of Vacancy APIs.
- Address (in English): Structural postal address of carpark in English.
- Address (in Chinese): Structural postal address of carpark in Traditional Chinese.
- Latitude & Longitude: Coordinates of carpark location.
- Contact No: Telephone number for general enquiries.
- Website: The website address.
- Opening Hours: Opening hours of carpark (Note: Null for 24x7 operations). Press 
   button to
   popup the opening hour rule dialog for editing (*Please refer <u>Edit Opening Hour Dialog</u>* section
   *for details*).
- Height Limits: Height restriction for entrance or carpark inside. Press + button to popup new height limit dialog for editing (*Please refer <u>Edit Height Limit Dialog</u> section for details*).
- Grace Periods: The first period of time how long takes to be free of charge, e.g. loading/unloading activities. Press + button to popup new grace period dialog. (*Please refer <u>Edit Grace Period</u> <u>Dialog</u> section for details.)*
- Payment Method: Options to pay the parking fee, e.g. Cash, Octopus, EPS, Visa, Master, UnionPay Card, Alipay, Autopay Station, etc.
- Facilities: Special Facilities provided by carpark, e.g. EV Charger Station, Disabilities, Loading&Unloading, Wash&Wax, Valet Parking, etc.
- Closed: Opening status of carpark. Only applicable for the carpark under enhancement or maintenance in long period.

All fields marked with an asterisk are required. Press "Add" button to confirm the creation of new carpark in SPS. By default, the newly created carpark has not yet published to the public until you set publish to the public (*Please refer to <u>Edit Carpark</u> section for details*).

Once the new carpark is created, Press in carpark list to edit the basic information, parking rates and data permission of the carpark in **General**, **Vehicles** and **Data Permission** Tags.

The carpark information including real-time parking vacancy information in SPS are shared with all government departments or bureaux. However, you may individually grant the permission in use of the information to EKEO, Transport Department and/or other open data platforms in Data Permission tag.

### 3.1.3 Carpark Details (View Mode)

This feature allows carpark administrator to view the carpark information including basic information, parking rates and data permission.



- General: The basic carpark information.
- **Rates**: Spaces and parking rates of various vehicle types.
- Data Permission: Grant the data permission to government departments and/or bureaux.

Information eneral Rates Data Permission General Io 10 Name (in English) Murray Road Car Park
erat Pates Data Permission eneral 10 we (in English) Murray Road Car Park
General io 10 Name (in English) Murray Road Car Park
ID 10 Name (in English) Murray Road Car Park
ID 10 Name (in English) Murray Road Car Park
Name (in English) Murray Road Car Park
Name (n 典利语停车场 Chinese)
Nature Government Type Multi-storey Carpark Building
Etemal ID
Location & Contact
Address (in 2 Murray Road, Central, HK English)
Address (in 普/语中语觉不能的) Chinese)
Latitude 22.2801549 Longitude 114.1621447
And
Website
raciity
Opening Hours Time Period
MON&TUE 00.05-00.10
WED 01:00-02:00
Height Limits
Grace Periods
Payment Method
Facilities
Closed No.
LINE IN IN
Status
Status Published Date Sep 10, 2016 4.42 25 PM
Published         Yes         Published Date         Sep 10, 2015 4:42:25 PM           Creation Date         Sep 10, 2015 4:37:45 PM         Modified Date         Jul 14, 2016 3:27:34 PM
Status         Published Date         Sep 10, 2016 4.4225 PM           Oreation Date         Sep 10, 2015 4.37.45 PM         Modified Date         Jul 14, 2016 3.27.34 PM           Last Upload Date         Jul 13, 2016 12.15.41 PM         Sep 10, 2016 12.15.41 PM         Sep 10, 2016 12.15.41 PM
Status Published Date Sep 10, 2015 4 42 25 PM Creation Date Sep 10, 2015 4 42 25 PM Creation Date Sep 10, 2015 4 37 45 PM Creation Date Sep 10, 2015 12 15 41 PM Creation Date Jul 13, 2016 12 15 41 PM Creation Date Date Jul 14, 2016 3 27 34 PM Creation Date Date Jul 14, 2016 3 27 34 PM Creation Date Date Jul 14, 2016 3 27 34 PM Creation Date Jul 13, 2016 12 15 41 PM

In General tag, you can view the publication status of the carpark information and audit information:

- **Published:** Indicate the carpark is published to the public or not.
- **Published Date:** The published date of carpark information.

- **Creation Date:** The creation date of carpark information.
- **Modified Date:** The last modified date of carpark information.
- Last Upload Date: The latest upload date of real-time parking vacancy information.
- Last Upload Method: The latest upload method of real-time parking vacancy information.
- •

## 3.1.4 Carpark Details (Edit Mode)

This feature allows carpark administrator to edit carpark information including basic information, parking rates and data permission.

	mation			
General Rates	Data Permission			
General				
ID	10			
*Name (in English	) Murray Road C	ar Park		
"Name (in Chinese)	美利道停車場			
"Nature	Government	• Type Multi-	storey Carpark Building	
Photo		×		
External ID				
Location & C	Jontact			
Address (in English)	Unit	•	Floor	
	Type of Housing	Building	•	
	Building			
	* Street Name	Continue Deed	Building No	
	District	2 Murray Road	Pagion	
	District	Central	* Region	HK •
Address (in Chinese)	單位		* 楼曆	
,	房屋麵型	樓宇		
	樓宇名稱			
	*街道	施手形展	街道門碑	2
	+ bib IEE	天村道	- dah duh	2
	125 800	中環	- "吧喀	香港 •
*Latitude	22.2801549	*Longitude	114.1621447	
	Pro- transfer of the second se		ANDER SERVICE STORES	Sector Constants
Website				
Facility				
Opening Hours		Time Period		Actions
		MON&TUE 00:05-00:10		1 8
		WED 01:00-02:00		/ 8
Height Limits	+			
Height Limits Grace Periods	+			
Height Limits Grace Periods Payment Method	+ + Cash Octo Autopay Station	pus □EPS □Visa □Master (	UnionPay Card 🔲 Alipay 🗐	
Height Limits Grace Periods Payment Method Facilities	Cash © Octo     Autopay Station     EV Charger St     Valet Parking	ipus □ EPS □ Visa □ Master ( ation □ Disabilities □ Uploading&U	UnionPay Card Alipay Inloading Wash&Wax	
Height Limits Grace Periods Payment Method Facilities Closed	Cash Octt Autopay Station     EV Charger St Valet Parking	pus EPS Visa Master ( ation Disabilities Uploading&U	i UnionPay Card i Alipay ii nioading ii Wash&Wax iii	
Height Limits Grace Periods Payment Method Facilities Closed Status	Cash Cott Autopay Station EV Charger St Valet Parking	pus EPS Visa Master ( atton Disabilities Uploading&U	UnionPay Card Alipay Inloading Wash&Wax I	
Height Limits Grace Periods Payment Method Facilities Closed Status Published	Cash Octo Autopay Station Cycle Parking	pus EPS Visa Master ( atton Disabilities Uploading&U Published Date	UnionPay Card Alipay	
Height Limits Grace Periods Payment Method Facilities Closed Status Published Creation Date	Cash Octo Autopay Station Conger St Valet Parking Sep 10, 2015 4:3	pus EPS Visa Master ( atton Disabilities Uploading&U Published Date Modified Date	UnionPay Card Alipay Into Alipay Sep 10, 2015 4:42:25 PM Juli 14, 2016 3:27:34 PM	

In General tag, you can manage the publication of the carpark information and view the audit information:

- **Published:** Indicate the carpark is published to the public or not.
- **Published Date:** The published date of carpark information.
- **Creation Date:** The creation date of carpark information.

- **Modified Date:** The last modified date of carpark information.
- Last Upload Date: The latest upload date of real-time parking vacancy information.
- Last Upload Method: The latest upload method of real-time parking vacancy information.

In "Add" new Carpark and "Edit" existing Carpark operation, it provides three dialogs for updating the opening hours, height limits and grace periods, namely:

- Edit Opening Hours Dialog
- Edit Height Limit Dialog
- Edit Grace Period Dialog

Press "Save" to save the changes or "Cancel" to discard the update.

#### 3.1.4.1 Edit Opening Hours Dialog

We allow user to add more than one record of opening hours. Press 📩 at the Opening Hour dialog box to add a new record. Press 🖉 or 💼 in action column to edit/remove the record of opening hours.

Time Period	d WEEKDAY
	EXCLUDE PUBLIC HOLIDAY
	© YES ● NO
	HOURS
	00:00 • 24:00 •

- **Time period:** Period of time for carpark opening. It consists of three items:
  - Weekday: The day of week to open for the public.
  - Exclude Public Holiday: The Public Holiday is exclusive or not.
  - Hours: Range of opening hours in 24-hour time notation.

Press "Save" to save the changes or "Cancel" to discard the update.

#### 3.1.4.2 Edit Height Limit Dialog

We allow user to add more than one record of Height Limit. Press 🛨 at the Height Limit dialog box to add a new record. Press 🖉 or 💼 in action column to edit/remove the record of height limit.

	4.2		
Remark (in English)	Entrance		
Remark (in Chinese)	-λ <b>□</b>		

- Height (in meter): Maximum height of vehicle *in meter*.
- Remark (in English): The location (in English) of the Height Limit where is applied e.g. Entrance, 1F, 2F, etc. Some guidelines for the input:
  - For main entrance to carpark, "Entrance" should be used.
  - For floor level, the abbreviation (e.g. GF, 1F, etc.) should be used without any special characters such as /, -, etc.
  - If one single height limit is applied to the entrance of carpark, it should leave it blank.
- Remark (in Chinese): The location (in Chinese) of the Height Limit where is applied e.g.
   Entrance, 1F, 2F, etc. Some guidelines for the input:
  - For main entrance to carpark, " $\lambda \square$ " should be used.
  - For floor level, the abbreviation (e.g. 一樓, etc.) should be used without special characters such as /, -, etc.
  - If one single height limit is applied to the entrance of carpark, it should leave it blank.

#### 3.1.4.3 Edit Grace Period Dialog

We allow user to add more than one record of Grace Period. Press 🛨 at the Grace Period to open the dialog box for adding a new record. Press 🖉 or 💼 in action column to edit/remove the record of Grace Period.

Time period (in minute)			
(in initial)	30		
Remark (in English)			
Remark (in Chinese)			
(in onlinese)			

• Time period (in minute): Duration *in minute* how long takes to be free of charge.

- **Remark (in English):** The criteria for free of charge in English.
- **Remark (in Chinese):** The criteria for free of charge in Traditional Chinese.

#### 3.1.5 Parking Rates (View Mode)

This feature allows carpark administrator to view parking rates.

	Data Permission						
Private Car					×	ĸ	
Space	Total	388					
	Disabilities	0					Expand / Collapse parki
	EV	0					for different vehicle type
	Unloading	0					
Hourly Charges	Туре	Time Period	Price Re	mark (in English)	Remark (in Chinese)		
	Hourly	MON-SUN 07:00-23:00	HKD 22				
	Hourly	MON-SUN 23:00-07:00	HKD 13				
Day Night Park	Туре	Time Period	Price	Remark (in English	) Remark (in Chinese)		
	Day Park	MON-SAT, except PH 07:	00-19:00 HKD 154	5			
	Day Park	SUN&PH 08:00-24:	00 HKD 90				
	Night Park	MON-SAT, except PH 193	00-07:00 HKD 10	5			
Monthly Charges							
Loading/Unloading	1						
Privileges							
Light Goods Vehic	le				>		
Heavy Goods Veh	icle				>		
Coach					>		
Motor Cycle					~		
Space	Total	55					
	Disabilities	0					
	EV	0					
	Unloading	0					
Hourly Charges							
Day Night Park	Туре	Time Period	Price F	tem <mark>ark (in English)</mark>	Remark (in Chinese)		
	Day Park	MON-SUN 08:00-23:0	0 HKD 20				
	Night Park	MON-SUN 23:00-08:0	HKD 8				
Monthly Charges							
Monthly Charges Privileges							

We support the following <u>**FIVE**</u> vehicle types:

- **Private Car:** Private Car or Van
- Light Goods Vehicle: Light Goods Vehicles
- Heavy Goods Vehicle: Heavy Goods Vehicles

- **Coach:** Any size of Private Bus
- Motor Cycle: Motor Cycle

By default, the Parking space and rate in Rates Tag are null. Click "Edit" button, to update the parking space and rates for individual vehicle type. For each type of vehicle, you can provide the following parking information:

- **Space:** Total parking spaces for the vehicle and number of space in which are reserved particularly for disabilities, electric car or loading/unloading activities.
  - *Total:* Parking space for vehicles including the spaces which are reserved for the disabled, electric vehicle, loading/unloading activities, etc.
  - *Disabilities:* Parking space reserved for the vehicle driven by disabled driver.
  - *EV*: Parking spaces reserved for electric vehicle.
  - *Unloading:* Loading/unloading spaces reserved for vehicle.
- Hourly Charges: The details of Hourly parking fee
- **Day Night Park:** The detailed parking fee for vehicle which parks for more than few hours.
- Monthly Charges: The details of monthly parking fee.
- Loading/Unloading: The detailed parking fee for loading/unloading purpose
- **Privileges:** Special privileges and arrangement for the parking.

Press "Update" to save the changes or "Cancel" to discard the update.

## 3.1.6 Parking Rates (Edit Mode)

This feature allows the carpark administrator to edit parking spaces and rates.

arpark morna	ation						
General Rates	Data Permiss	ion					
Private Car						~	
Space	* Total	200					
	Disabilitie						
	Distolitie	0					Expand / Collapse parkin
	EV	0					for different vehicle type
	* Unloading	0					
Hourly Charges				Bemark (in	Demark (in		
	Туре	Time Period Pric	e Conditions	English)	Chinese)	Actions	
	Hourly	MON-SUN 07:00- HKE 23:00 22	Covered			1 8	
	Hourly	MON-SUN 23:00- HKI	Covered				
	1.2	07.00 13					
Day Night Park	+			Demark	Demaster 11		
	Туре	Time Period	Price Condition	English)	Chinese)	Actions	
	Day Park	MON-SAT, except PH 07:00-19:00	HKD Covered 150			/ 8	
	Day	SUN&PH 08:00-24:00	HKD Covered			18	
	Night	MON-SAT, except PH	HKD Covered			18	
	Park	19:00-07:00	100				
	+						
Charges	+						
Loading/Unloadin	9 +						
Privileges	+						
Light Goods Vehi	cle					>	
Heavy Goods Ve	hicle					>	
Coach						>	
Motor Cycle						~	
Space	* Total	55					
	*Disabilitie	s 0					
	-EV	0					
	*Unloading	0					
Houriy Charges	+						
Day Night Park	Туре	Time Period Pr	ce Conditions	Remark (in English)	Remark (in Chinese)	Actions	
	Day	MON-SUN 08:00- Hi	D Covered			/ 8	
	Night	MON-SUN 23:00- HK	D 8 Covered			/ 8	
	Park	00:80					
Monthly	+						
Charges							
Privileges	+						
		Upd	Cancel				

By default, the parking spaces and rates are null. Press "Expand" button to expand the details of individual vehicle type for editing. In the expansion panel, you may add/delete/update the parking spaces and the details of FIVE different types of parking rates including

- **Private Car:** Private Car or Van
- Light Goods Vehicle: Light Goods Vehicles
- Heavy Goods Vehicle: Heavy Goods Vehicles
- **Coach:** Any size of Private Bus
- Motor Cycle: Motor Cycle

You have to follow the below general guidelines when filling up the parking spaces:

- Input "0" if no parking spaces for the vehicle type.
- Input total exact number of parking space for the available vehicle type.

 Input the numbers of the parking space reserved for particular use (e.g. Disabilities) in corresponding input box.

Press "Update" to save the changes or "Cancel" to discard the update.

#### 3.1.6.1 Edit Hourly Charge Dialog

This editing dialog box is opened when you select 🛨 button at the hourly charge or 🖉 button.

* Туре	Houriy
Time Period	WEEKDAY
	MON VILE WED THU FRI SAT SUN PH
	EXCLUDE PUBLIC HOLIDAY
	© YES ● NO
	* HOURS
	07:00 • 23:00 •
Price before certain usage thresholds	*
*Price (Thereafter)	22
Minimum Usages (in hours)	
Conditions	* <u>COVERED</u>
	Covered •
Remark (in English)	
Remark (in Chinese)	

- **Type:** Hourly parking plan. i.e.
  - Hourly Charge
  - Half Hourly Charge
- **Time period:** Period of Time for the parking plan, i.e.
  - Weekday: Those days of week which are applicable
  - Exclude Public Holiday: The Public Holiday is exclusive or not
  - Hours: Time Period which is applicable

**Price before certain usage threshold:** Fee charge within the threshold period, (e.g. first 2 hours). Refer

Edit Usage Threshold Dialog for details.

- **Price (Thereafter):** Fee charge after the threshold period.
- Minimum Usage (in hours): Minimum parking period in an hour basis.
- **Conditions Covered:** Environmental conditions of parking space, i.e.
  - Covered

- Semi-covered
- Open-air
- Covered/Open-air
- **Remark (in English):** The special condition of parking space in English. The following guidelines are for your reference:
  - Blank the field if there is no special arrangement for the parking plan.
  - The arrangement for particular vehicle type (e.g. Taxi), floors (e.g. 4F) or building area (e.g. Zone A)
- **Remark (in Chinese):** The special condition of parking space in Traditional Chinese.

#### 3.1.6.2 Edit Day Night Park Dialog

This editing dialog box is opened when you select 🛨 button at the day night park or 🖉 button.

Space	Edit Day Night Pa	rk	
	Туре	24 Hours Park	
	Time Period	* WEEKDAY	
		MON TUE WED THU FRI SAT SUN PH	
		EXCLUDE PUBLIC HOLIDAY	
Hourly Ch		© YES ● NO	Actions
		* HOURS	/ 8
		07:00 • 19:00 •	1 8
		* VALID UNTILS	
Day Night		Following day v 12:00 v	
			Actions
	*Price	70	1 =
	Conditions	COVERED	<i>d</i> * 🗉
		Covered •	
Monthly (			
Loading/	Remark (in English)		
Privileges	Remark (in Chinese)		
Light Gor			
Light Sol		Save Cancel	
Heavy G	CORE A SUBJECT		

- **Type:** Day-night parking plan, i.e.
  - Day Park
  - Night Park
  - 6 Hours Park
  - 12 Hours Park
  - 24 Hours Park
- **Time period:** Period of Time for the parking plan, i.e.
  - Weekday: Those days of week which are applicable.

- Exclude Public Holiday: The Public Holiday is exclusive or not
- **Hours:** Time Period which is applicable
- Valid Until: The valid time for day-night parking plan. It is only applicable for 6 Hours Park, 12 Hours Park or 24 Hours parking plans.
- **Price:** Fee charge to the parking plan
- **Conditions Covered:** Environmental conditions of parking space, i.e.
  - Covered
  - Semi-covered
  - Open-air
  - Covered/Open-air
- **Remark (in English):** The special condition of parking space in English. The following guidelines are for your reference:
  - Blank the field if there is no special arrangement for the parking plan.
  - The arrangement for particular vehicle type (e.g. Taxi), floors (e.g. 4F) or building area (e.g. Zone A).
- **Remark (in Chinese):** The special condition of parking space in Traditional Chinese.

#### 3.1.6.3 Edit Monthly Charge Dialog

This editing dialog box is opened when you select 🛨 button at the monthly charges or 🖉 button.

*Туре	Monthly Park	
*Price	3000	
Time Period(s)	+	
Conditions	* COVERED	
	Covered •	
	* RESERVED	
	Non-Reserved	
Remar <mark>k (in E</mark> nglish)		
Remark (in Chinese)		
Remark (in Chinese)		

- **Type:** Monthly parking plan i.e.
  - Monthly Park
  - Monthly Day Park

- Monthly Night Park
- Bi-monthly Park
- Bi-monthly Day Park
- Bi-monthly Night Park
- Quarterly Park
- Quarterly Day Park
- Quarterly Night Park
- Yearly Park
- Yearly Day Park
- Yearly Night Park
- **Price:** Fee charge to the parking plan.
- **Time period(s):** Period of Time for the parking plan. Blank the field if the monthly parking plan includes the whole period.
  - Weekday: Those days of week which are applicable
  - Exclude Public Holiday: The Public Holiday is exclusive or not
  - **Hours:** Time Period which is applicable.
- **Conditions Covered:** Environmental conditions of parking space, i.e.
  - Covered
  - Semi-covered
  - Open-air
  - Covered/Open-air
- **Conditions Reserved:** Indicate the parking space is reserved or non-reserved.
  - Reserved
  - Non-reserved
- **Remark (in English):** The special condition of parking space in English. The following guidelines are for your reference:
  - Blank the field if there is no special arrangement for the parking plan.
  - The arrangement for particular vehicle type (e.g. Taxi), floors (e.g. 4F) or building area (e.g. Zone A)
- **Remark (in Chinese):** The special condition of parking space in Traditional Chinese.

### 3.1.6.4 Edit Loading/Unloading Dialog

This editing dialog box is opened when you select 🛨 button at the loading/unloading or 🖉 button.

* Туре	Hourly
Price before certain usage thresholds	+
* Price	30
Remark (in English)	
Remark (in Chinese)	

- **Type:** Loading/Unloading parking plan, i.e.
  - Hourly Charge
  - Half Hourly Charge

**Price before certain usage threshold:** Fee charge within the threshold period, (e.g. first 2 hours). Refer

- Edit Usage Threshold Dialog for details.
- **Price:** Fee charge after the threshold period.
- **Remark (in English):** The special condition of parking space in English. The following guidelines are for your reference:
  - Blank the field if there is no special arrangement for the parking plan.
  - The arrangement for particular vehicle type (e.g. Taxi), floors (e.g. 4F) or building area (e.g. Zone A)
- **Remark (in Chinese):** The special condition of parking space in Traditional Chinese.

Press "Save" to save the changes or "Cancel" to discard the update.

#### 3.1.6.5 Edit Privilege Dialog

This editing dialog box is opened when you select 🛨 button at the privilege or 🖉 button.

Description (in English)	Upon single spending of HK\$400 or above (including 1 F&B receipt), you can enjoy extra 1 hour free parking.
Description (in Chinese)	由即日起至3月31日消費滿港幣400元或以上,(包括1張食肆發票),即享額外1小時泊車優惠。
Time Period	WEEKDAY MON ® TUE ® WED ® THU ® FRI ® SAT ® SUN = PH EXCLUDE PUBLIC HOLIDAY © YES ® NO HOURS
	08:00 • 23:00 •

- **Description (in English):** Any special offer in English.
- **Description (in Chinese):** Any special offer in Traditional Chinese.
- **Time period:** Period of time for special offer, i.e.
  - Weekday: Those days of week which are applicable.
  - Exclude Public Holiday: The Public Holiday is exclusive or not.
  - **Hours:** Time Period which is applicable.

#### 3.1.6.6 Edit Usage Threshold Dialog

This editing dialog box is opened when you select  $\textcircled{\bullet}$  button at the price before certain usage thresholds or  $\checkmark$  button.

	preshold	
r Add Osage II	Il esticita	
F *Hours	1	
*Price C	0	
		Save Cancel
	07:00 • 23:00 •	

- Hours: No. of hours the threshold period included.
- Price: Fee charged per period, which follows the hourly charges plan and/or loading/unloading plan.

Press "Save" to save the changes or "Cancel" to discard the update.

## 3.1.7 Data Permission (View Mode)

This feature allows carpark administrator to grant the data permission. By default, data permission is granted to all government departments or bureaux.

Smart Parking System	A My Carparks	In Pull Service	A Download	👗 Berto User 🕶
Carpark Inform	ation			
General Rales	Data Permission			
Data Permissi	on			
· Grant to the Got	vernment of the HKS	AR.		
Grant to selecte	d government depar	tments and burear	us.	
Energizing Kov	Noon East Office (EKE	0) 起動力構成符算的	R.	
Other Open D	tata platforms (a.g. D	ata qov.tik, Geodal	ta Blore, and CBDI portal)	
			Edit Back	
		IS 2016 Smart P	farking System Present by 22280	

Press "Update" to save the change or "Cancel" to discard the update.

## 3.1.8 Data Permission (Edit Mode)

This feature allows a carpark operator controls the data permission.

Smart Parking System	A My Carparts	N. Pull Service.	A Download	👗 Demo User +
Carpark Inform	ation			
General Rates	Data Permission			
Data Permissi	on			
+ Grant to the Gov	vernment of the HKS	AR.		
Grant to selecte	d government depar	tments and bureau	15.	
C Energizing Kow Transport Depu	vicon East Office (ERE artment 通知間 Jata platforms (a.g. D	O) 紀紀7, 紀紀5番5 ala.gov.hk, Geodal	8 Is Store, and C 8D/ portal)	
			Edit Back	
		IS 2016 Securit P	tanking System Presentity 22780	

The following three government departments and bureaxs currently allow accessing the real-time parking vacancy data.

- Energizing Kowloon East Office (EKEO) 起動九龍東辦事處
- Transport Department 運輸署

• Other Open Data platforms (e.g. Data.gov.hk, Geodata Store and CSDI portal)

Press "Update" to save the changes or "Cancel" to discard the update.

### 3.1.9 List Access Keys

This feature allows carpark administrator to manage the access key of individual carpark, which is used for client authentication for Push Request and SPS Terminal when updating the real-time parking information.

Access Key M	1anagement Carpark Kwai Fong 葵芳停車場 Type Multi-store	Car Park y Carpark Building				
Total: 1	Access Key ¢		Published ¢	Modified Date 👻	Action	S
4a4e42b7818318eca3	3af2d26d84c7424d2fc0	0424	Yes	Feb 24, 2016 4:16:45 PM	1	J
				10 25	50 1	00
Generate Access Key	/ Back					

- By default, the access keys are sorted by the last modified date. Press Sort Ascending or Sort
   Descending button at the column label in the search results.
- The paging toolbar allows you to control the current page number and the number of carparks in each page.
- Press for editing the details of access key information.
- Press for removal of the access key of the carpark.
- Press Generate Access Key for generating a new access key of the carpark.

### 3.1.10 Access Key Details (View Mode)

This feature allows carpark administrator to view the details of access key.

cccoo ricy ii	monnation		
	Carpark Kwai Fong Car Park 茎芳停車場		
tin 📔	Type Multi-storey Carpari	k Building	
General			
Basic			
Access Key	dc2752f66786a6c47c2dcd	a096a7208004f96198	
Access Secret	9724c70bb7d74e4b00c0b4	45e7b09a3e3a870a2fc	
Remark			
Status			
Published	Yes	Published Date Jul 21, 2016 9:40:41 PM	
Creation Date	Jul 21, 2016 9:40:41 PM	•	Status info
Modified Date	Jul 21, 2016 9:40:41 PM		
		Launch Edit Back	

Basic information of access key includes:

- Access Key: The key used to identify the carpark credential
- Access Secret: The secret used to sign request message with HMAC-SHA256 in Push Request.
- **Remark:** Placeholder to record where the access key is used.

In additional to basic information, this page also contains extra time information for audit and publish status:

- Published: Indicate the access key is active or not for client authentication in Carpark Application or SPS Terminal.
- **Published Date:** The publish date of access key in use
- **Creation Date:** The creation date of the access key.
- **Modified Date:** The latest modified date of the access key.

Press "Update" to save the changes or "Cancel" to discard the update.

Press "Launch" button will launch web version of SPS Terminal for updating parking vacancy data in manual mode.

"Launch App" button will appear if you are using mobile device to access this administration portal. Press it to launch the SPS Terminal for updating parking vacancy data in manual mode.

### 3.1.11 Access Key Details (Edit Mode)

This feature allows carpark administrator to view details of an access key.

	Construction and the second	and a second				
-	Carpark Kwai Fong Ci 葵芳停車場	ar Park				
	Type Multi-storey 0	Carpark Building				
1005						
General						
ocherur						
Basic						
Access Key	dc2752f66786a6c47	c2dcda096a7208	004f96198			
Access Secret	9724c70bb7d74e4b	00c0b45e7b09a3	e3a870a2fc			
Remark	e.g. Users to who	n you are assignir	ng.			
					h	
Status						
Published		Pu	ublished Date	Jul 21, 2016 9:40:41	PM	
Creation Date	Jul 21, 2016 9:40:41	PM				
Modified Date	Jul 21, 2016 9:40:41	PM				
			Canaal			

You can edit the remark and change the status of the carpark which is **Published** or not published to the public in this moment.

Press "Update" to save the changes or "Cancel" to discard the update.

## 3.2 Pull Service Registration

If carpark operators have implemented REST endpoints conforming to Parking Vacancy API 1.0 Specification, they have to register their endpoints to SPS. Once registration is succeeded, SPS then pulls the parking vacancy information from your REST endpoints periodically.

### 3.2.1 Pull Service Details (View Mode)

This feature allows carpark administrator to view pull service configuration of the car park.

art Parking System	🖨 My Carparks 🔊 Pull S	Service 🛓 Download	🔺 Demo Use
Pull Service			
General History			
Content URL	http://ekeo-parking.wise	.astri.org/demo/feed/1	
Enabled	Yes		
		Edit Back	

- **Content URL:** The URL of REST endpoint, where the parking vacancy information is located in the carpark server.
- Enabled: To enable or disable the SPS server to pull the parking vacancy information.

#### 3.2.2 Pull Service Details (Edit Mode)

This feature allows carpark administrator to update pull service configuration of the carpark.

Smart Parking System	😝 My Carparks	N Pull Service	≛ Download	🛓 Demo User 👻
Pull Service				
General History				
Content URL	http://ekeo-pa	rking.wise.astri.org/	/demo/feed/1	
Enabled	Yes			
			Edit Back	
			© 2016 Smart Parking System Powered by ASTRI	

- **Content URL:** The URL of REST endpoint, where the parking vacancy data is located in the carpark server.
- Enabled: To enable or disable the SPS server to pull the parking vacancy information.

Press "Update" to save the changes or "Cancel" to discard the update.

## 3.2.3 Pull Service History

General History					
Total: 219					
Date 👻	REST Endpoint	Latency	Success	Status Code	Error Message
Jul 22, 2016 2:41:50 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.15 s	Yes	200	
Jul 22, 2016 2:41:40 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.12 s	Yes	200	
Jul 22, 2016 2:41:30 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.08 s	Yes	200	
Jul 22, 2016 2:41:20 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.12 s	Yes	200	
Jul 22, 2016 2:41:10 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.17 s	Yes	200	
Jul 22, 2016 2:41:00 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.54 s	Yes	200	
Jul 22, 2016 2:40:50 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.24 s	Yes	200	
Jul 22, 2016 2:40:40 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.21 s	Yes	200	
Jul 22, 2016 2:40:30 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.21 s	Yes	200	
Jul 22, 2016 2:40:20 PM	http://ekeo-parking.wise.astri.org/demo/feed/1	0.44 s	Yes	200	
« 1 2 3 4	5 6 7 22 *			10	25 50 100

This feature allows carpark administrator to log the Pull Service from the SPS server.

- When the SPS server pull data from carpark server, it would log the activity including
  - **Date:** The time when the SPS server pull the data from carpark server.
  - **REST Endpoint:** The URL of REST endpoint where the SPS server pulled the data.
  - Latency: Time interval between the Pull Service and response.
  - **Success:** The Pull Service is completed successfully.
  - **Status Code:** The HTTP status code from the response.
  - Error Message: The error message generated by the SPS if the Pull Service fails.
- The logs are sorted by the last modified date by default. You may sort in different order by pressing
   Sort Ascending or Sort Descending button at the column label in the search results.
- The paging toolbar allows you to control the current page number and the number of carparks in each page.

## 3.3 Account Setting

#### 3.3.1 View Profile

A user can view his/her profile.

t Parking System 🛛 🖨	My Carparks	N Pull Service	📥 Download	🔺 Demo U
My Profile				
General				
Username				
User Name	micna			
Personal Informat	ion			
Fersonal morma				
First Name	Demo			
Salutation	User			
Title/Position	Principle	e Engineer		
Contact Informati		e Eligineer		
Contact informatio	n			
Email	micng@	)astri.org (NOT VERI	FIED)	
Contact No	N/A			
Fax No				
Company Informa	tion			
Company Name (in Engl	ish) ASTRI			
Company Name (in Chin	ese) ASTRI			
Company Address	3/F, Bio Park	-Informatics Centr	e, 2 Science Park West Avenue,	Hong Kong Science
Authorization				
Signed Consent Form	👁 Vie	w 📥 Download		
		(	Edit Back	
			Low Low	
		© 2016 Smart	Parking System Powered by ASTRI	

The detailed definitions of fields are below:

- User Name: Username that identifies a carpark administrator when logging onto the system.
- **First Name**: The first name of the user.
- Last Name: The last name of the user.
- Salutation: Salutation options which include Mr., Ms., Mrs. and Dr.
- **Title/Position**: The job title/position of the user in his/her company.
- **Email**: The email address of a user. The administrator can deliver messages instantaneously.
- **Contact No**: The contact phone number. The administrator is able to conduct a conversation directly.
- **Fax No**: The facsimile machine number that can receive pictures and text over a telephone line. This field is optional.
- **Company Name (in English)**: The Company name in English. For consistent formatting style, first character of each word <u>must</u> be capital letter.

- **Company Name (in Chinese)**: The Company name in Traditional Chinese.
- **Company Address**: Unstructured postal address in English/Traditional Chinese.
- Signed Consent Form: The consent form uploaded to the SPS during account registration.

Press the "Edit" to update your account profile and "Back" to discard the change.

### 3.3.2 Edit Profile

A user can change his/her profile.

mart Parking System 🛛 🖨 Му	Carparks 🔊 Pull Servi	ce 📥 Download	👗 Demo User 👻
My Profile			
General			
Username			
User Name	micng		
Personal Information			
*First Name	Demo		
*Last Name	User		
* Salutation	Mr. v		
* Title/Position	Principle Engineer		
Contact Information			
*Email			
La TINCI	micng@astri.org		
*Contact No	N/A		
Fax No			
Company Informatio	n		
*Company Name (in English)	ASTRI		
*Company Name (in Chinese	) ASTRI		
Company Address	3/F, Bio-Informatics	Centre, 2 Science Park West Av	enue, Hong Kong Scier
Authorization			
Signed Consent Form	👁 View 🛓 Downl	oad	
		Update Cancel	
	© 2016 \$	mart Parking System Powered by ASTRI	

The detailed definitions of fields are below:

- User Name: Username that identifies a carpark operator when logging onto our system and cannot be changed.
- **First Name**: The first name of the user.
- Last Name: The last name of the user.
- Salutation: Salutation options which include Mr., Ms., Mrs. and Dr.
- **Title/Position**: The job title/position of the user in his/her company.
- **Email**: The email address of a user. The administrator can deliver messages instantaneously.
- **Contact No**: The contact phone number. The administrator is able to conduct a conversation directly.
- Fax No: The facsimile machine number that can receive pictures and text over a telephone line. This field is optional.
- Company Name (in English): The Company name in English. For consistent formatting style, every first letter character of every word <u>must</u> be capitalized letter.
- **Company Name (in Chinese)**: The Company name in Traditional Chinese.
- **Company Address**: Unstructured postal address in English/Traditional Chinese.
- **Signed Consent Form**: The consent form uploaded to parking server during account registration.

### 3.3.3 Change Password

This allows administrator to change the user password.

	vord		
Old Password			
New Password		Strength: Good	
Confirm New Password	•••••		
Update Back			

The detailed definitions of fields are below:

- Old Password: The current password for logging onto our system.
- New Password: The desired new password. It <u>must</u> be at least 6 to 20 characters with at least one digit, one upper case character, one lower case character and one special character (\'@#\$%!\').
- Confirm New Password: Input the desired new password again. It ensures the new password in both the New and Confirm New Password fields do not make a typo in either field.

Press "Update" to save the changes or "Back" to discard the update and back to profile page.

## 3.4 SPS Terminal

#### 3.3.4 SPS Terminal App Download

Carpark administrator can download the SPS Terminal App for carpark operational staff to upload parking vacancy information manually. The App is only available in <u>Android version</u>.



You can upload the parking vacancy data in manual model at <a href="https://sps-op.pilotsmartke.gov.hk/download/spsterminal.apk">https://sps-op.pilotsmartke.gov.hk/download/spsterminal.apk</a>

# 4. NOTIFICATIONS

# 4.1 Outdated Vacancy Reminder Example

If the carpark does not update the parking vacancy information for a period of time, the carpark administrator will receive an automatic email notification as below. The carpark administrator shall check if necessary.

Dear Demo User,

We would like to draw to your attention that below carparks have not updated vacancy status in a long time.

	Company	Contact Person	Contact No. 39041337	
Dem	o Company	Demo User		
	Carpark Name	Last Upload Date	Expires	
1	Aberdeen Car Park 香港仔停車場	Jan 20, 2016 2:38:01 PM	6.43 month(s)	
2	City Hall Car Park 大會堂停車場	Aug 3, 2016 8:34:04 AM	Never	
3	Kennedy Town Car P <mark>a</mark> rk 堅尼地城停車場	Mar 2, 2016 12:03:32 PM	5.05 month(s)	
4	Kwai Fong Car Park 葵芳停車場	Jul 12, 2016 10:42:37 AM	21.91 day(s)	
5	Rumsey Street Car Park 林士街停車場	Jun 7, 2016 6:57:00 PM	1.85 month(s)	
6	Sheung Fung Street Car Park 雙鳳街停車場	Sep 17, 2015 4:16:55 PM	10.53 month(s)	
7	Sheung Shui Park-and-Ride 上水泊重轉乘停重場	Aug 3, 2016 8:34:04 AM	Never	
8	T <mark>in</mark> Hau Car Park 天后停車場	Jul 12, 2016 2:54:14 PM	21.73 day(s)	

Should you have any queries, please contact us at 3904 1337 or email sps-admin@pilotsmartke.gov.hk.

This is a computer generated email. Please DO NOT REPLY to the sender.

Smart Parking System Administrator