API Portal - Developer Guide

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1. WELCOME!

Welcome to Infrasys Cloud Partner API Portal!

You can find that this is an easy way to extend the functionality of your system via the partner API Portal.

From there, we provide the RESTful APIs for the developer integration.

Please follow the steps and start your API development.

- Apply Developer Account for Infrasys Cloud API Portal**
- Create Developer Application
- Subscribe APIs for the Application (to get sandbox access key)
- Learn and test APIs at API Console (with sandbox)
- API Integration to your own application
- Certification (to get production access key)**

** Application Form and approval process by Infrasys API Portal Admin Team is required

After Verification in Certification, you will receive the keys to access Infrasys Cloud production environment and your application will be put into our feature market place for Infrasys Cloud customer subscription.

At that moment, your application can work with us to provide the world class service to our customers.

Let's start now!



2. <u>APPLY DEVELOPER ACCOUNT</u>

Infrasys Cloud API Portal is for the partner development only. Therefore, the developer should receive the invitation before submitting your account application.

For the API list that should be subscribed by your application, you must inform Infrasys Business Unit prior to raising your application-API subscription. Please make sure you have submitted a registration form provided by Infrasys Business Unit.

Step 1: Go to Infrasys Cloud Developer Portal

CN region: <u>https://api.hero-cloud.cn:9443/store</u> Global region: <u>https://api.hero-cloud.com:9443/store</u>

	API Store						Sign-up	(€) s
0	APIS	All -	Search	Q	0			
	APPLICATIONS							
	analytics 🗸 🗸	A	APIs					
TAC	SS za		PizzaShackAPI 1:1.1 Jane Roe					

Step 2: Click"Sign-up" button at the top-right corner





Step 3: Input Developer Information.

, nji	Username *
ORE	e.g JohnDoe
	Characters left: 30
	Password *
	Password
	Re-type Password *
	Password
	First Name *
	Last Name *
	Email *
	Company-APP (eg:ATech - MyApp) *

Step 4: Please enter your company and application name in "Company-APP" field. This will be the application name shown in market place for user selection.

e.g.

Company name : Future Technology

Application : Butterfly App

Company-APP: "Future Technology – Butterfly App"

If Company-APP Field is hidden, please press "Show Additional Details" to show the field.





Step 5: Press "Sign Up" button to submit the application. The below message will be shown for success signup.

API Store - Notification	×
User account awaiting Administrator approval.	
	ОК

Please check your mail box. You should receive an Account New Registration email from our API Portal. **Please note the application process is not completed yet!**

[Security Reminder] Please use caution - message originated from outside Shiji.							
	Sys						
	Dear Sir / Madam,						
	Your account on Infrasys Cloud API developer portal has been created.						
	Login Name : indicate						
	Developer Name :						
	Contact Email : 100000000000000000000000000000000000						
	Should there be any questions, kindly please email to hk-infrasys-api-enquiry.list@shijigroup.com.						
	Yours faithfully,						
	- The Infrasys Cloud API Developer Portal Administrator						

After the account process by API operation team, a confirmation email will be issued to the Developer email. The secret key of sandbox is attached.

[Security Reminder] Please use caution - message orig	inated from outside Shiji,
	sys
	Dear Sir / Madam,
	Your registration on infrasys Cloud API developer portal has been approved.
	Login Name : juntijite
	Developer Name : Shift-multi-te
	Confact Email : protein Configuration and a contract of the co
	You may start your application development using the sandbox on Infrasys Cloud API developer portal with following request information :
	Shop Code : 0001
	Outlet Code : 1001
	Secret Key :
	Should there be any questions, kindly please email to hk-infrasys-api-enquiry.list@shijigroup.com.
	Yours faithfully,
	- The Infrasys Cloud API Developer Portal Administrator



You can "Sign In" to the API Portal now!

Step 1: Open the Infrasys Cloud Developer Portal

CN region: <u>https://api.hero-cloud.cn:9443/store</u> Global region: <u>https://api.hero-cloud.com:9443/store</u>



Step 2: Press "Sign In" button at the top-right corner and Type in your Username and Password





You will get your API working space.





3. CREATE DEVELOPER APPLICATION



Step 1: Login to the Developer Portal. Press "APPLICATIONS" button at the navigation bar.

	APPLICATIONS		APPLICATION						
۲	APIS								
١î	analytics 🗸	A	pplications						
		An a coll crea	An application is a logical collection of APIs. Applications allow you to use a single access token to invoke a collection of APIs and to subscribe to one API multiple times with different SLA levels. The DefaultApplication is precreated and allows unlimited access by default.						
			Name	Tier	Status	Subscriptions	Actions		
			DefaultApplication	Unlimited	ACTIVE	0	👁 View 💉 Edit		
							💼 Delete		
		Show 10 • entries Showing 1 to 1 of 1 entries							



Step 2: Press "ADD APPLICATION" button.

S	API Store											product
Ň	APPLICATIONS		APPLICATION									
0	APIS											
ίũ	analytics 🗸 🗸	A	oplications									
		An a sub:	application is a logical o scribe to one API multi	collection ple times	of APIs. Applicat with different SL/	ions a A leve	illow you to us Is. The Default	se a sing tApplica	le access token to inv tion is pre-created an	oke a collectior d allows unlimit	n of APIs and ed access by	to default.
			Q Filter by]						
			Name	15	Tier	↓ ↑	Workflow Status	↓↑	↓↑ Subscriptions	Actions		11
			DefaultApplication		App2KPerMin		ACTIVE		11	View	🖋 Edit	

Step 3: Fill in the details of the application and press "Add" button to complete the action

- Name : Application Name (To be shown for customer subscription)
 **Please note the application name should not duplicate with "Company-APP" in sign-up
- Per Token Quota : Select the plan for the API traffic control
- Description : Information for your application

Add Application							
An application is a logical collection of APIs. Applications allow you to use a single access token to invoke a collection of APIs and to subscribe to one API multiple times with different SLA levels. The DefaultApplication is pre-created and allows unlimited access by default.							
Name*	OrderMate App Characters left: 57						
Per Token Quota	50PerMin Allows 50 request per minute This feature allows you to assign an API request quota per access token. Allocated quota will be shared among all the subscribed APIs of the application.						
Description	Make restaurant item ordering by <u>OrderMate</u> App						
	Add Cancel						



The application added and details will be shown under the Application List.

Orde	rMate App				
Details	Production Keys	Sandbox Keys	Subscriptions		
	Status	APPROVED			
	Per Token Quota	50PerMin Allows 50	request per minute		
		This feature allows you to assign an API request quota per access token. Allocate quota will be shared among all the subscribed APIs of the application.			
	Description	Make restaurant item	ordering by OrderMate App		



4. SUBSCRIBE API FOR THE APPLICATION

Step 1: Login to the Developer Portal. Press "APPLICATIONS" button at the navigation bar.

	APPLICATIONS		APPLICATION					
۲	APIS							
l ílí	analytics 🗸 🗸	А	pplications					
		An AP unl	application is a logical collect Is and to subscribe to one AP imited access by default.	you to use a single access token to invoke a collection o LA levels. The DefaultApplication is pre-created and allo				
			Q Filter by					
			↓ Name	↓† Tier	Workflow 11 Status	LT Subscriptions	11 Actions	
			DefaultApplication	Unlimited	ACTIVE	0	👁 View 💉 Edit	
							📅 Delete	
			OrderMate App	50PerMin	ACTIVE	0	 O View	
		Show 10 • entries Showing 1 to 2 of 2 entries 1						

Step 2: Check the new application was created and included in the "Application List"

	APPLICATIONS		I LIST	EDIT		
۲	APIS					
Ш.	ANALYTICS 🗸	Order	Mat	e App		
		Details	Produ	uction Keys	Sandbox Keys	Subscriptions
				Status	APPROVED	
			Per Tok	en Quota	APP2KPerMin Allo	ws 2000 requests per minute per Application
					This feature allows y will be shared amon	you to assign an API request quota per access token. Allocated quota g all the subscribed APIs of the application.
			De	scription	Restaurant Ordering	App OrderMate

Step 3: Press "APIS" button at the navigation bar.





A list of arranged APIs for your account is shown on screen. If your desired API is not available, please contact our business unit to request more APIs.



Step 4: Click on the target API to view the details





Step 5: Please select the Applications to subscribe current API and select the Tier.

	Version:	1.0.0	Applications	
	By:	Infrasys Intl. Ltd.	OrderMate App	
POS	Updated:	31/Aug/2017 08:27:57 AM UTC	Tiers	
F03	Status:	PUBLISHED	Bronze	•
Overview API Co	nsole Document	ation SDKs	Subscribe	
Production and S Production and Sandt	Sandbox Endpoin	ts		
Production and S Production and Sandt https://	Sandbox Endpoin	ts		E
Production and S Production and Sandt https:// Description	Sandbox Endpoin box URLs:	ts		E
Production and S Production and Sandt https:// Description This is a RESTFul API	Sandbox Endpoin box URLs: for POS.	ts		E
Production and S Production and Sandt https:// Description This is a RESTFul API Business Informa	Sandbox Endpoin tox URLs: for POS. ation	ts		E

DefaultApplication	•
New Application	
My Applications	
DefaultApplication	
OrderMate App	

п

OrderMate App	•
ers	
Bronze	•
Bronze Allows 50 requests per minu	ute



Step 6: Then Press "Subscribe" button to confirm the Application-API subscription.

Tiers Bronze	Applications	_
Bronze -	Tiers	•
	Bronze	•

The subscription application is submitted and approved instantly.





5. GENERATE ACCESS TOKEN FOR THE APPLICATION

Step 1: Login to the Developer Portal. Press "APPLICATIONS" button at the navigation bar.

	APPLICATIONS		APPLICATION				
۲	APIS						
íí	ANALYTICS 🗸	Α	oplications				
		An a API	Application is a logical collection of <i>i</i> multiple times with different SLA lev Q Filter by Name DefaultApplication OrderMate App Show 10 • entries Showing	APIs. Applications allow vels. The DefaultApplicat Tier 11 APP2KPerMin APP2KPerMin g 1 to 2 of 2 entries	you to use a single acce ion is pre-created and a Workflow Status 11 ACTIVE ACTIVE	ess token to invoke a col llows unlimited access Subscriptions 11 0	Actions View Edit Delete View Edit Delete View Edit Delete

Step 2: Click on particular application

Order	Mate App	
Details	Production Keys	Sandbox Keys Subscriptions
	Status	APPROVED
	Per Token Quota	APP2KPerMin Allows 2000 requests per minute per Application
		This feature allows you to assign an API request quota per access token. Allocated quota will be shared among all the subscribed APIs of the application.
	Description	Restaurant Ordering App OrderMate



Step 3: Generate both "Production Keys" and "Sandbox Keys". Press "Generate keys" to generate the keys.

Details	Production Keys	Sandbox Keys	Subscriptions				
() N No ke	lo Keys Found lys are generated for t	his type in this appli	cation.				
Grant T The applic requireme	ypes cation can use the foll ent, you can enable or	owing grant types to disable grant types	o generate Access Tokens. E for this application.	Based on the application			
 Refre 	esh Token 🔽	SAML2	Implicit	Password			
V IWA-	NTLM	Client Credential	Code				
Callback	Callback URL						

CN region

Access token is by module. Please select the API module and click generate.

POS_LABOUR_MANA	GEMENT_API : POS_LABOUR_MANAGEMENT_API.	4			
PREORDER_API_v1_0_	0 : PREORDER_API_v1_0_0.	~			
KD_API_v_1_0_0 : KD_	API_v_1_0_0.	4			
RESERVATION_API_v1	I_1_1 : RESERVATION_API_v1_1_1.	1			
PMS_API_v1_0_0 : PM	IS_API_v1_0_0.	4			
POS_API_v3_5_0 : POS_API_v3_5_0.					
POS_LABOUR_MANAGE	EMENT_API, PREORDER_API_v1_0_0, KD_API_v_1_0_0,				
ESERVATION_API_v1_	1_1, PMS_API_v1_0_0, POS_API_v3_5_0				
lidity period					
indity period					



For generate access token automatically, please use the below cURL command.



Global region

Access token is by application. Click Generate to get the access token.

Generate a Test Access Token Access Token						
Above token has a validity period of 360000 seconds.						
Scopes						
No Scopes Found	No Scopes Found					
Validity period	Validity period					
360000	Seconds					
Regenerate						

For generate access token automatically, please use the below cURL command.





Keys are regenerated (Consumer Key & Consumer Secret)

Consumer Key	
	E
Consumer Secret	
	E

6. LEARN AND TEST APIS AT API CONSOLE

Step 4: Click on "Subscriptions" tab

Details	Production Keys Sand	oox Keys Subscriptions				
Q Filter by						
API Name	ĻĿ	Subscription Tier	Ļţ	Status 11	Actions	Ļţ
POS	POSgAPI - 1.0.0	Bronze		UNBLOCKED	📅 Unsubscribe	
Show 10 v entries Showing 1 to 1 of 1 entries 1						

Step 5: Select the API to open the API page \rightarrow Click on "API Console" tab

Overvie	w API Console	Documentation	SDKs

Overview API Console	Documentation SDK:	S	
Try	OrderMate App		•
Using	Sandbox	•	Key
Set Request Header	Authorization : Bearer	9714b6e9-c2c8-32bc-8197-5344464a1b4b	



Step 6: Try the API with Sandbox: Change "Using" to "Sandbox".

Overview API Console	Documentation SDK:	3	
Try	OrderMate App		•
Using	Sandbox	•	Key
Set Request Header	Authorization : Bearer	9714b6e9-c2c8-32bc-8197-5344464a1b4b	

Step 7: Click on each API link to view API details

005					
GET /Sho	pps/{shopCode}/outlets/{outletCod	le}/menus			Retrieve all menu:
Implementat Retrieve all av	ion Notes vailable menus.				
Response C OK. Collectior	lass (Status 200) n of Menu objects is returned.				
Model Exam	ple Value				
{ "status": "data": { "menus" {	"string", : [de": "string", me_ <language code="">": "string"</language>				
Response Co	ontent Type application/json v			016-01	·
neader	Description	Тур	8	Other	
Parameters Parameter	Value		Description	Parameter Type	Data Type
secretKey	(required)		Unique key provided by Publisher	header	string



For **CN region**, press "Try it out".

GET /shops/{shopCode} Retrieve shop information.	a
Retrieve information of a specified shop.	
Parameters	Try it out
Name Description	
secretKey * required Unique key provided by Publisher	
string	
(header)	
shopCode * required Shop code	

Step 8: Fill in the API parameters

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
secretKey	(required)	Unique key provided by Publisher	header	string
shopCode	(required)	Shop code	path	string
outletCode	(required)	Outlet code	path	string
languages	(required)	Define the languages of result to get. It is a list of language codes which separated by commas. E.g. zh-Hant,ja,ko. The language codes follow the standard of ISO 639-1 and the supported languages are - en, zh-Hant, zh-hk, zh-Hans, ja, ko, th and fr.	query	string

Click "Model" for the parameter detail.



Parameters				
Parameter	Value	Description	Parameter Type	Data Type
secretKey	(required)	Unique key provided by Publisher	header	string
shopCode	(required)	Shop code	path	string
outletCode	(required)	Outlet code	path	string
check	(required) Parameter content type: application/json	Check details	body	Model Example Value CreateCheck { table_no (string, optional): The table no., cover (integer): The cover no., price_level (integer, optional): Target price level for all it (start from 0). meal_period (string, optional): The meal period code, items (Array[Item]): The list of items, discounts (Array[Obscount] optional): The list of discour-

Click "Example Value" for parameter template. And click on the content, the example will be available for use.

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
secretKey	(required)	Unique key provided by Publisher	header	string
shopCode	(required)	Shop code	path	string
outletCode	(required)	Outlet code	path	string
check	{ "table_no": "string", "oover": 0, "price_level": 0, "meal_period": "string", "items": [/ Parameter content type: application/json ▼	Check details	body	<pre>Model Example Value { "table_no": "string", "cover": 0, "price_level": 0, "meal_period": "string", "items": [{ code": "string", "open_desc": "string", "open_price": "string", "eodifiers": [} } </pre>

Step 9: For Global region, press "Try it out!" button to submit the API test request.

For CN region, press "Execute" button to submit the API test request.

string (nath)	shopCode - Shop code	
languages * ^{required} string (query)	Define the languages of result to get. It is a list of langu language codes follow the standard of ISO 639-1 and t th and fr.	lage codes which separated by commas. E.g. zh-Hant,ja,ko. The he supported languages are - en, zh-Hant, zh-hk, zh-Hans, ja, ko,
	languages - Define the languages of result to get. It	
	Execute	



The response message is shown below.

La se Vide Desenant
Try it out
Curl
curl -X GETheader 'Accept: application/json'header 'secretKey: 597eee44- Bearer 'https://api.hero-cloud.com:8243/pos/1.0.0/shops/0001/outlets/1001/menus?languages=en'
Request URL
https://////pos/1.0.0/shops/0001/outlets/1001/menus?languages=en
Request Headers
{ "Accept": "application/json", "secretKey": "597eee44
Response Body
<pre>{ "status": "success", "data": { "menus": [{</pre>
Response Code
288
Response Headers
<pre>{ "content-type": "application/json" }</pre>

The reponse message model and example is availale under "Response Class".

POST	/shops/{shopCode}/outlets/{outletCode}/checks
Implem Create	ientation Notes a new check and return check no. upon success.
Respor	nse Class (Status 200) eck is created. Example Value
Send Cf status data (} SendCh check }	eck Result { ; (string, optional), SendCheckResult, optional) eckResult {no (string): The check no.



Secret Key and API Specific Parameters

When you need to perform the testing, you need to put the Secret Key and the specific parameters to the API Console or your own testing tools.

"Secret Key" is the key granted to you to access the specific data scope.

e.g. You can use the specific Secret Key to access all outlets of "Lake Hotel".

or You can use another specific Secret Key to access "Grill Room" and "In-Room Dining" only in "Sky Hotel".

Therefore you can use specific Secret Key in the api to access the particular outlets.



When will you get the "Secret Key"?

When your application is subscribed by any Merchant in our API Application Market, you will receive an email showing you the "Secret Key" and the outlet information. Then you can use those information in your application to access the resources through our API Portal.

First "Secret Key" you received is the one for you to access the sandbox environment for your testing. You should receive it after your "User Account" registered successfully.



H þEo	RO
	Dear Sir / Madam,
	Your registration on HERO API developer portal has been approved.
	Login Name : I
	Developer Name :
	Contact Email :
	You may start your application development using the sandbox on HERO API developer portal with following request information :
	Shop Code(s) : 0001,
	Outlet Code(s) : 1001,
	Secret Key : 597eee
	Should there be any questions, kindly please email to api.enq
	Yours faithfully,
	- The HERO API Developer Portal Administrator

Sample email after "Application Subscription" by Merchant

HERO
Dear Sir / Madam,
Your subscription has been approved. Developer Name : Infra: Contact Email : k Application : DefaultApplication API : POSgAPI Version : 3.0.0
Gateway : Sandbox & Production Should there be any questions, kindly please email to hk-infrasy
Yours faithfully, - The HERO API Developer Portal Administrator



7. <u>CN REGION AND GLOBAL REGION DIFFERENCES</u>

	CN region	Global AWS
URL	https://api.hero-cloud.cn:9443/store	https://api.hero-cloud.com:9443/store
Extra Grant Types	TWL	
Access Tokens	curl -k -d	curl -k -d
Generation	"grant_type=password&username	"grant_type=password&username=Use
- Password Grant	=Username&password=Password	rname&password=Password" -H
type	&scope=Scope1 Scope2" -H	"Authorization: Basic
	"Authorization: Basic	ZU1faTYzSThRdGNoNFM2Qk5wZGFyV
	aTJ0OUJ1XzFBUzJoXzNSZ2ZWU2N	UJ3ZXpFYTpCZE1mc3NDN1lwcjdvZUITR
	PdEYwczN3YTpCSjhPdFRxX3pqQk5	mk4ekhlU0JwZ0lh"
	TS1U0X0VjY3B6c0ZLZ0Vh"	https://api.hero-cloud.com:8243/token
	https://api.hero-cloud.cn:8243/to	
	ken	
Access Tokens	curl -k -d	curl -k -d
Generation	"grant_type=client_credentials≻	"grant_type=client_credentials" -H
-Client Credential	ope=Scope1 Scope2" -H	"Authorization: Basic
grant type	"Authorization: Basic	ZU1faTYzSThRdGNoNFM2Qk5wZGFyV
	aTJ0OUJ1XzFBUzJoXzNSZ2ZWU2N	UJ3ZXpFYTpCZE1mc3NDN1lwcjdvZUITR
	PdEYwczN3YTpCSjhPdFRxX3pqQk5	mk4ekhlU0JwZ0lh"
	TS1U0X0VjY3B6c0ZLZ0Vh"	https://api.hero-cloud.com:8243/token
	https://api.hero-cloud.cn:8243/to	
	ken	
Scopes	By Module	By Application
Request URL	https://api.hero-cloud.cn:8243/	https://api.hero-cloud.com:8243



8. API INTEGRATION TO YOUR OWN APPLICATION

You are great to reach this section! You are going to integrate this API with your own application. You can use the links shown in the API Console for your application testing use.

Hints for your integration

- Prepare Secret Key and API Specific Attributes (e.g. Shop code, Outlet code)
- Prepare the "Consumer Key" and "Consumer Secret"
- Generate "Access Token"
 - It must be included in each API call.
 - Token has a validity of 3600 second. Before expiry, you can use the same Token for the API calls.
 - o Generation Methods
 - Using curl as described in developer portal
 - Using HTTP POST with following configurations: Request Url: \$api_portal_url/token

HTTP headers:

Name	Value	Explanation
Accept	application/json	
Authorization	Basic \$value	For the \$value: please use base64 to
		encode your consumer key and
		consumer secret using the following
		pattern:
		base64(consumerKey:consumerSecret)

HTTP POST Body:

grant_type=password&username=\$devUserName&password=\$devUserPw

\$devUesrName and \$devUserPw are the user login credentials in developer portal.

- Fire the HTTP POST request.
- The access token is generated. The response packet:

{"access_token":" <mark>8a7ee529-9c24-3198-a758-6142a8515efa</mark> ",				
"refresh_token":"95462565-a0bf-36b3-a054-ba4375ce123c",				
"scope":"default","token_type":"Bearer","expires_in":3600}				



- API Integration to your application •
 - General HTTP headers required for all APIs:

Name	Value	Explanation
Accept	application/json	
secretKey	\$secretKey	For using sandbox, developers should
		get the secretKey from
		abovementioned registration approval
		email
Authorization	Bearer \$accessToken	Previously generated access token
Content-Type	application/json	

• Parameter Type

Example: \$api_portal_url/preorder/1.0.0/shops/S001/outlets/O001/menus?languages=en,zh-Hant

Parameter Type	Explanation	Example
header	HTTP Header	
path	RESTful format	shops/S001/
	request url	outlets/0001
query	HTTP request query	?languages=en,zh-Hant
body	HTTP request body	{
		"items": [
		// item details
]
		}
		L
		"table_no": "2",
		// other required parameters
		}

Remarks:

Available shop codes and outlet codes can be extracted from each Merchant Subscription to your application

- Parameter Format Example languages ISO 639-1 Standard en, zh-Hant, zh-Hans, ja, ko, th, fr date yyyy-MM-dd 2017-04-03 ISO 8601 Standard 2004-02-12T15:19:21+00:00 time
- Special parameter specification



9. CERTIFICATION

After the integration, your application can integrate to our applications.

Please make the trial run for your application at the sandbox environment. After that, please extract the communication log and send to us (API Portal Admin) for verifications. Once it is passed, you will gain the Production environment access and start the API Integration to the real life customers.