User Guide for iAM Smart Pilot Sandbox

Version 1.0.0

March 2020

© Hong Kong Cyberport Management Company Limited

The contents of this document remain the property of and may not be reproduced in whole or in part without the express permission of the Hong Kong Cyberport Management Company Limited.

Table of Content

1. Account Registration 1

2. Login 3

3. Home Page 6

   3.1 Home 7

   3.2 Things to Know 8

   3.3 Use Cases 9

   3.4 APIs 11

      3.4.1 API details 12

      3.4.3 Download API for mockup 19

   3.5 Helpdesk 20

   3.6 FAQ 21

   3.7 About 22

4. User Profile 23

   4.1. Change Password 24

   4.2. Notes 26

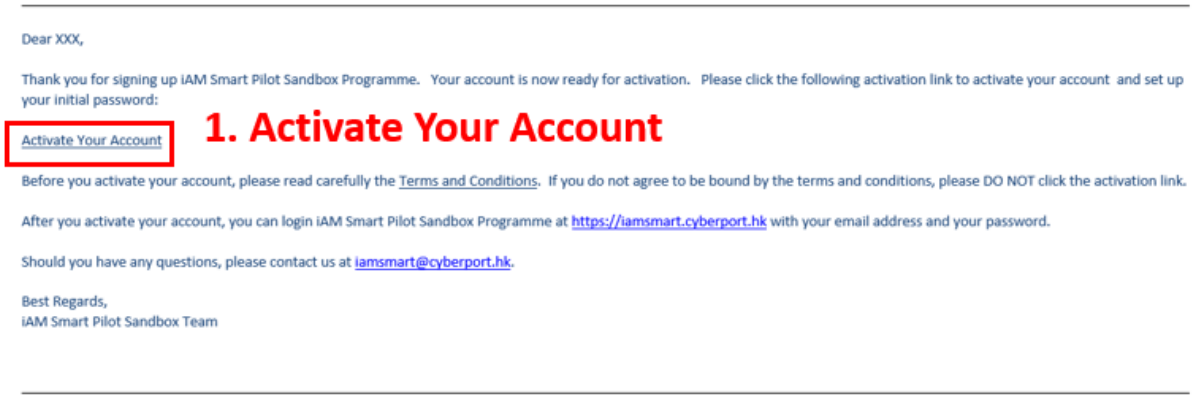
Copyright © 2020 Hong Kong Cyberport Management Company Limited

1. Account Registration

At the present pilot stage, account registration is by invitation only. Invitations will be sent out to designated sectors through supporting organisations of the iAM Smart Pilot Sandbox Programme.

1.1 After an invitee confirm his/her interest to join the programme, he/she will receive the following account activation email.

The user can then click the "Activate Your Account" link in the email to activate his/her account. Before the user activates his/her account, he/she should read carefully the terms and conditions by clicking the "Terms and Conditions" link. If the user does not agree to be bound by the terms and conditions, he/she should not activate his/her account.



Dear XXX,

Thank you for signing up iAM Smart Pilot Sandbox Programme. Your account is now ready for activation. Please click the following activation link to activate your account and set up your initial password:

Activate Your Account

1. Activate Your Account

Before you activate your account, please read carefully the Terms and Conditions. If you do not agree to be bound by the terms and conditions, please DO NOT click the activation link.

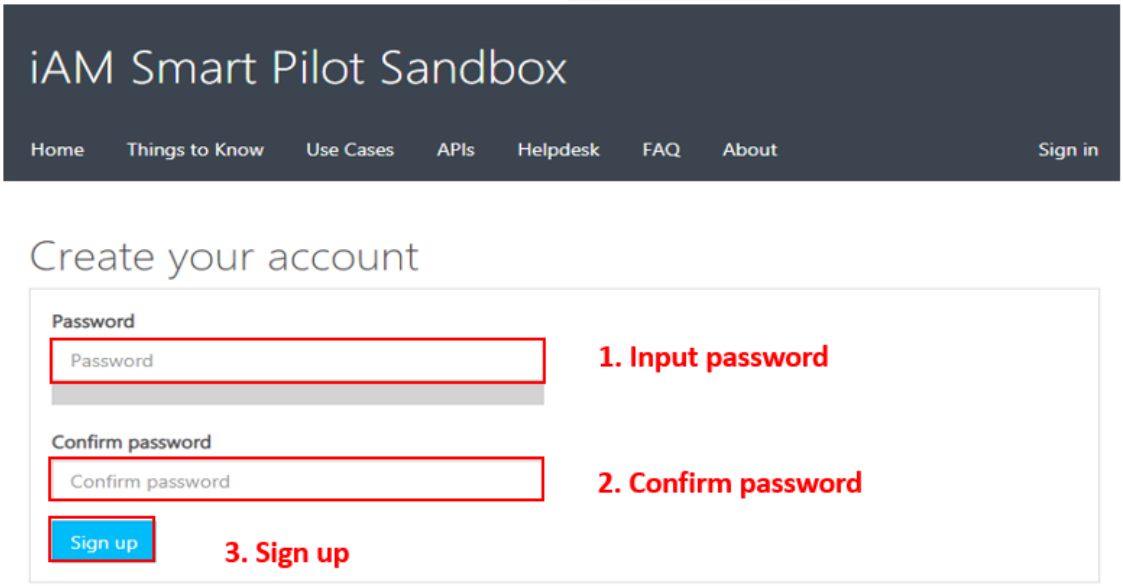
After you activate your account, you can login iAM Smart Pilot Sandbox Programme at https://iamsmart.cyberport.hk with your email address and your password.

Should you have any questions, please contact us at iamsmart@cyberport.hk.

Best Regards,
iAM Smart Pilot Sandbox Team

Copyright © 2020 Hong Kong Cyberport Management Company Limited

1.2 User can then assign and confirm password to complete the account registration.

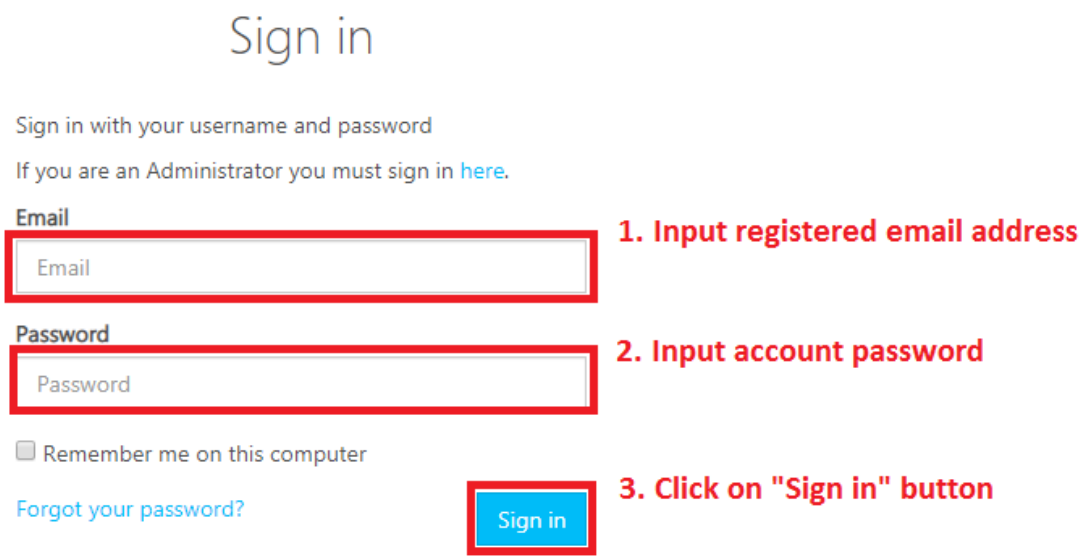


Copyright © 2020 Hong Kong Cyberport Management Company Limited

2. Login

iAM Smart Pilot Sandbox URL: **https://iamsmart.cyberport.hk/**

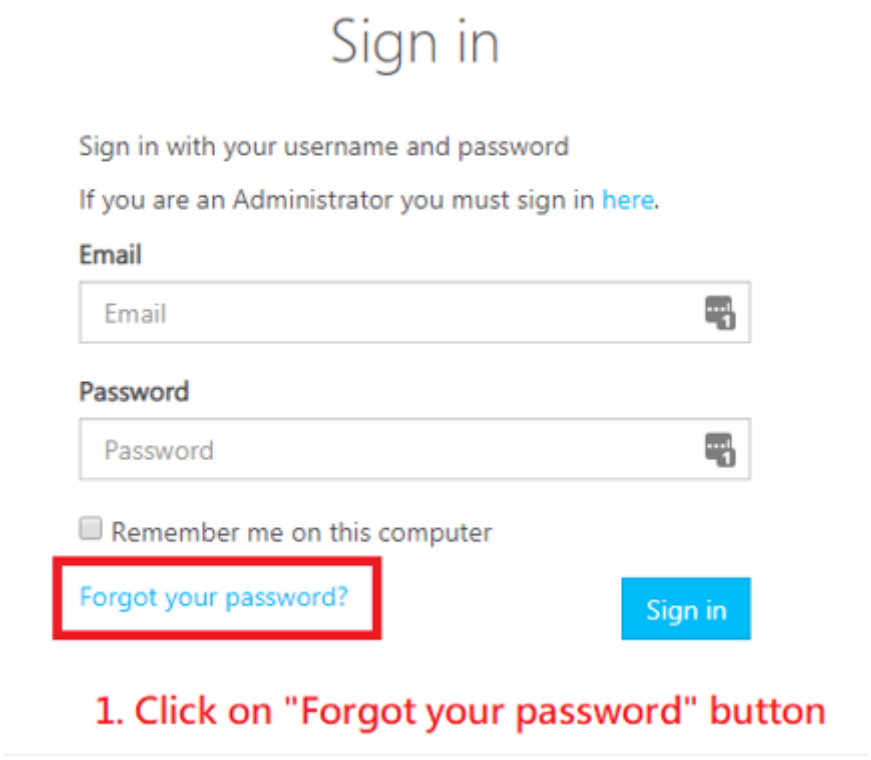
2.1. User login can be made with registered email address and password. For details of account registration, please refer to section 1 "Account Registration".



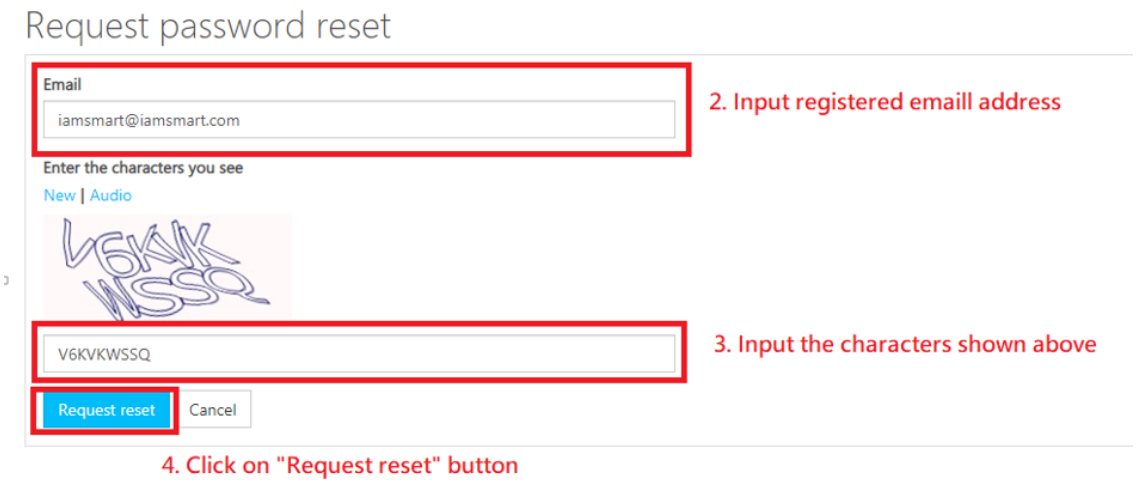
Copyright © 2020 Hong Kong Cyberport Management Company Limited

2.2. Reset password can be requested if user forgets the account password. An email with reset password hyperlink will be delivered to the user's registered email address upon request.

- Click "Forgot your password"

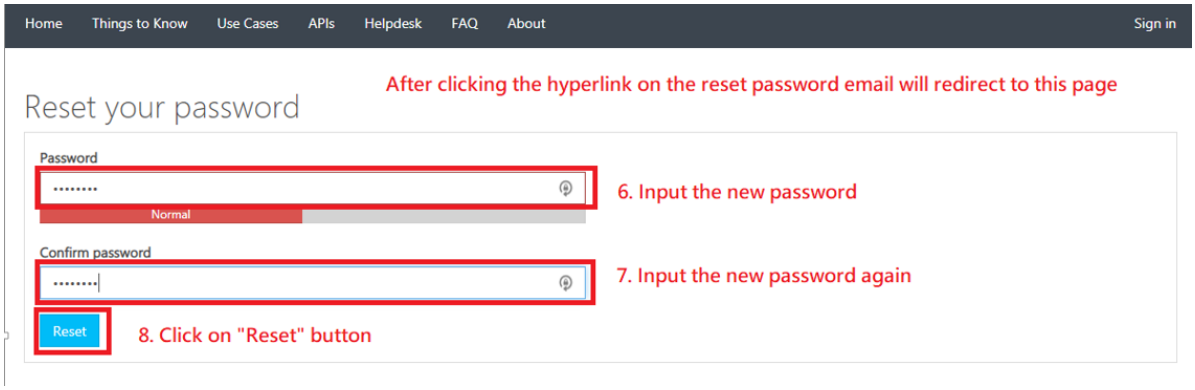


- Input registered email address and submit password reset request



Copyright © 2020 Hong Kong Cyberport Management Company Limited

2.3. After receiving the reset password email, user can click the hyperlink inside to reset the password.

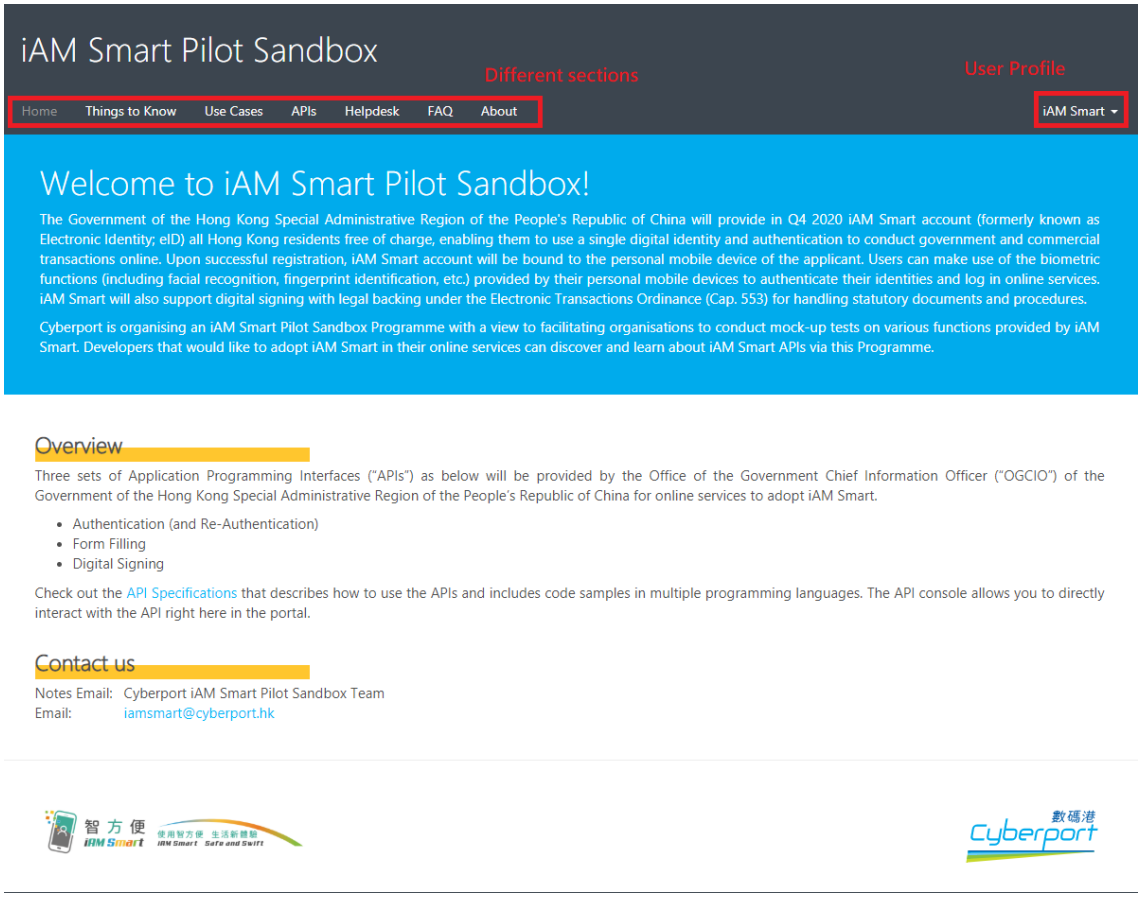


2.4. If user forgets the registered email address, please contact our customer service at *iamsmart@cyberport.hk*.

Copyright © 2020 Hong Kong Cyberport Management Company Limited

3. Home Page

The iAM Smart Pilot Sandbox consists of information about the iAM Smart Platform, iAM Smart APIs and iAM Smart Pilot Sandbox Programme under seven sections as below.

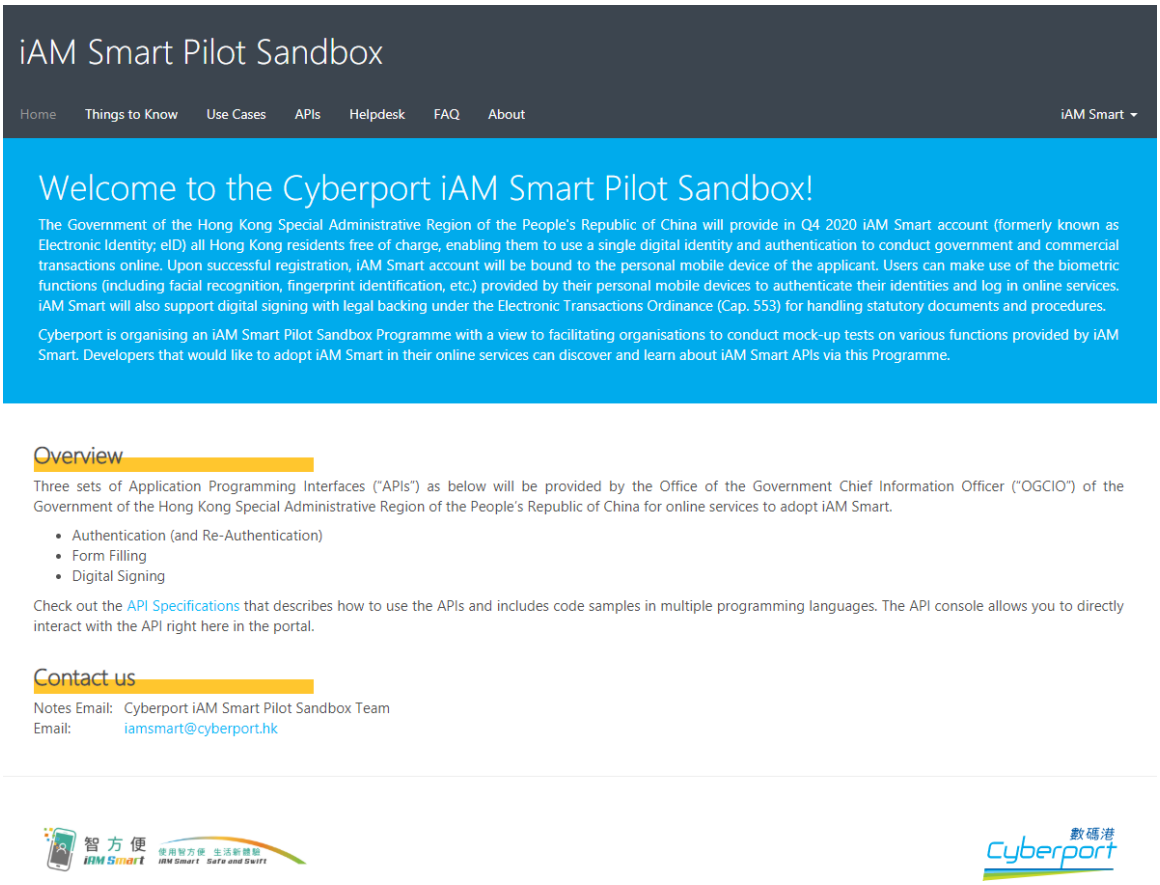


Index	Sections	Descriptions
3.1	Home	Landing page of iAM Smart Pilot Sandbox
3.2	Things to Know	Something you should know about the iAM Smart Platform and iAM Smart APIs before trying out the APIs
3.3	Use Cases	Use cases for using functions of iAM Smart
3.4	APIs	iAM Smart API Specification and mockup trial
3.5	Helpdesk	Online helpdesk for iAM Smart Pilot Sandbox
3.6	FAQ	Frequently Asked Questions on iAM Smart APIs
3.7	About	Information of iAM Smart Pilot Sandbox Programme

Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.1 Home

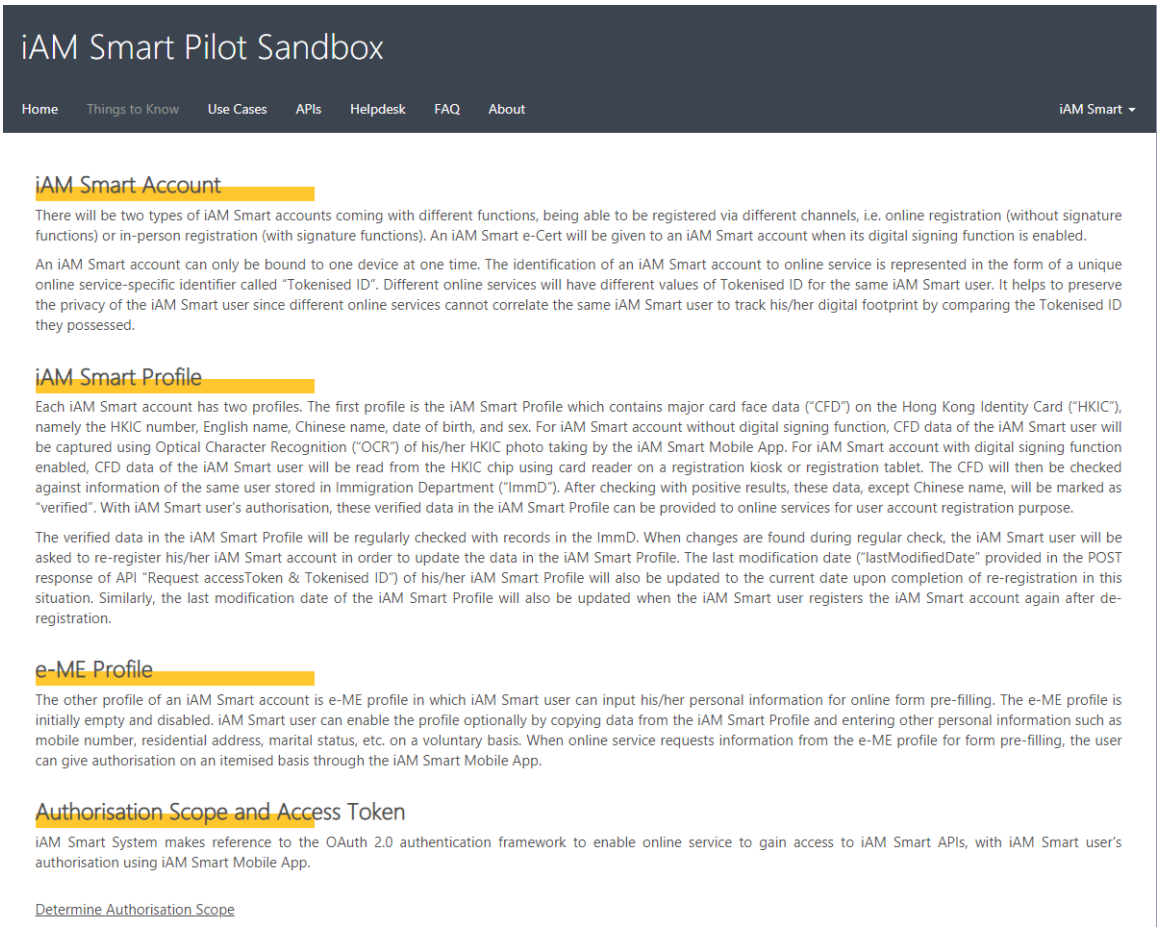
This page consists of background information of iAM Smart and iAM Smart Pilot Sandbox Programme.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.2 Things to Know

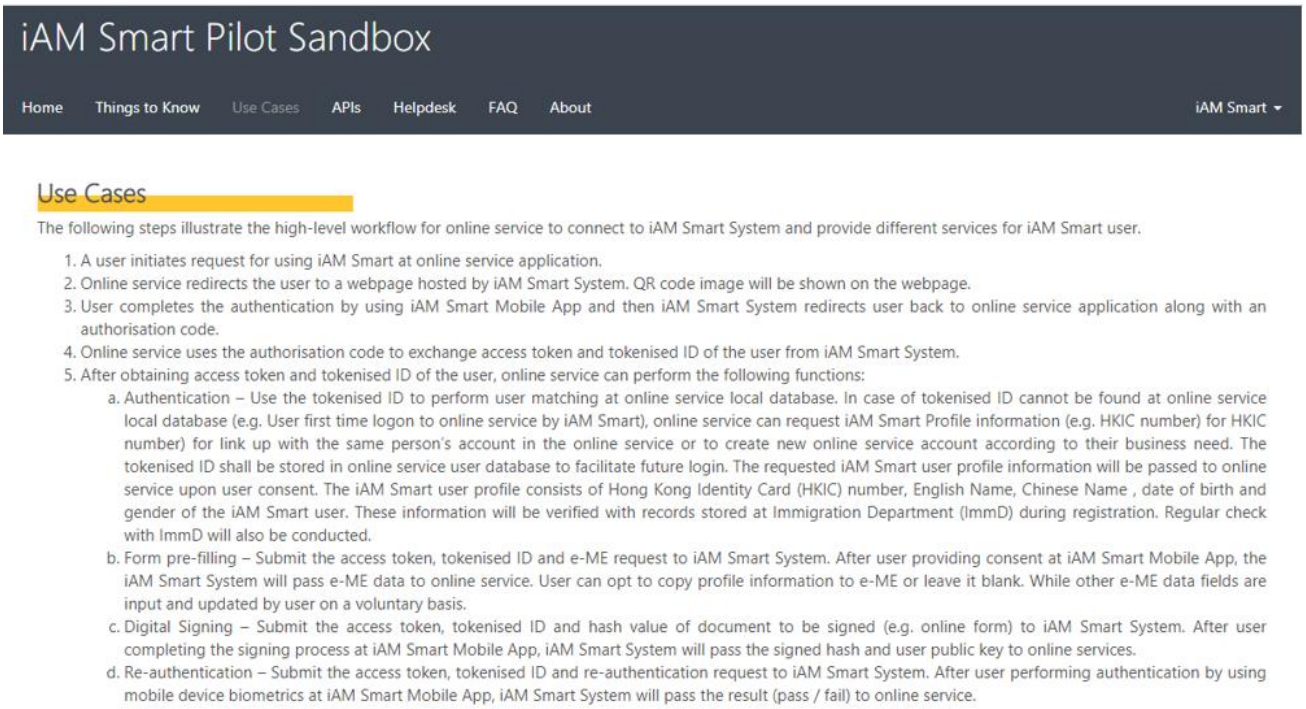
This page consists of essential technical information of iAM Smart Platform and iAM Smart APIs. It also includes the predefined parameters for iAM Smart APIs mockup trial such as *Access Token* and *Authorisation Scope*. Developers are recommended to read this page before going into the details of the iAM Smart APIs and their mockup trial.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.3 Use Cases

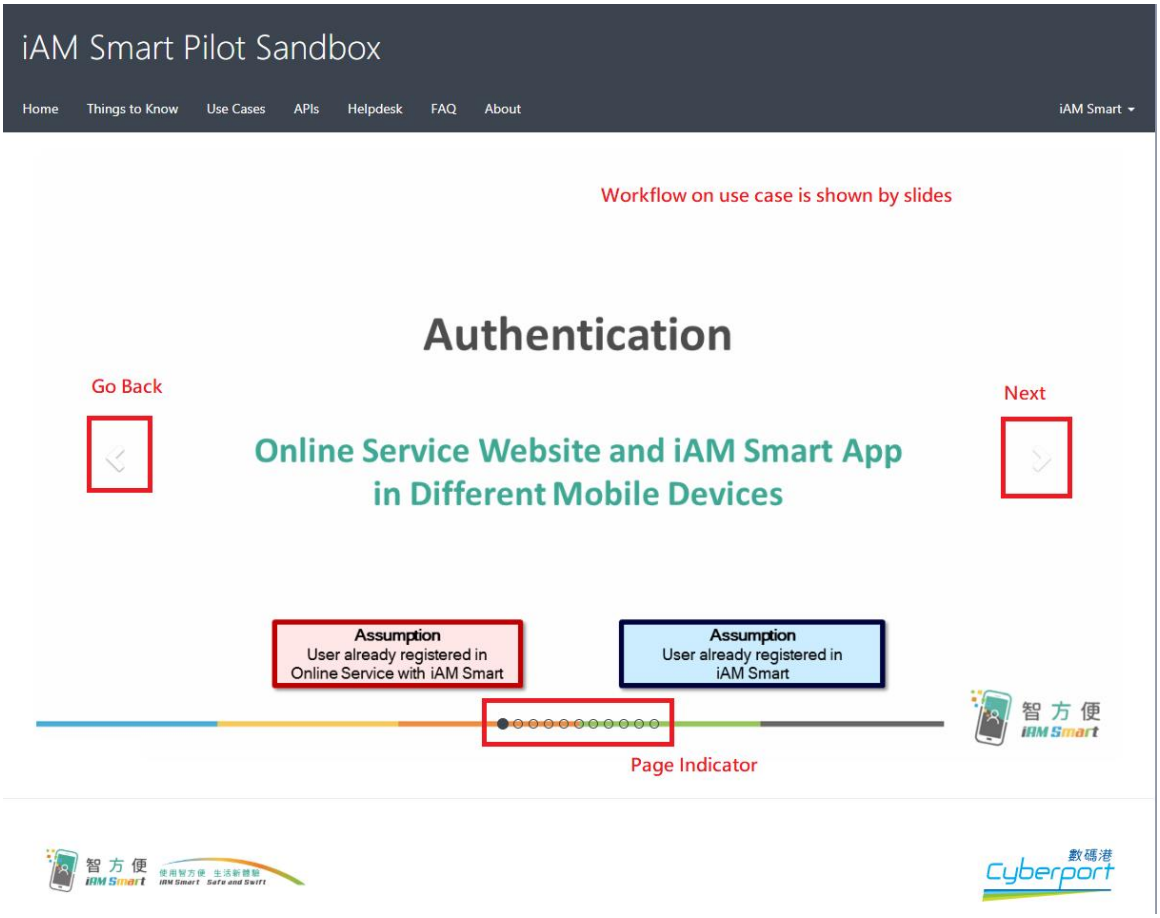
This page consists of the high-level workflow for online services to integrate with iAM Smart Platform to use the iAM Smart functions. Workflow of the use cases in accordance with the three types of iAM Smart APIs: Authentication, Form Pre-filling and Digital Signing, are illustrated under the hyperlinks at the bottom of the page.



- Click use case at the bottom of the page to view the workflow

Copyright © 2020 Hong Kong Cyberport Management Company Limited

- View the slide one-by-one using the direction arrows

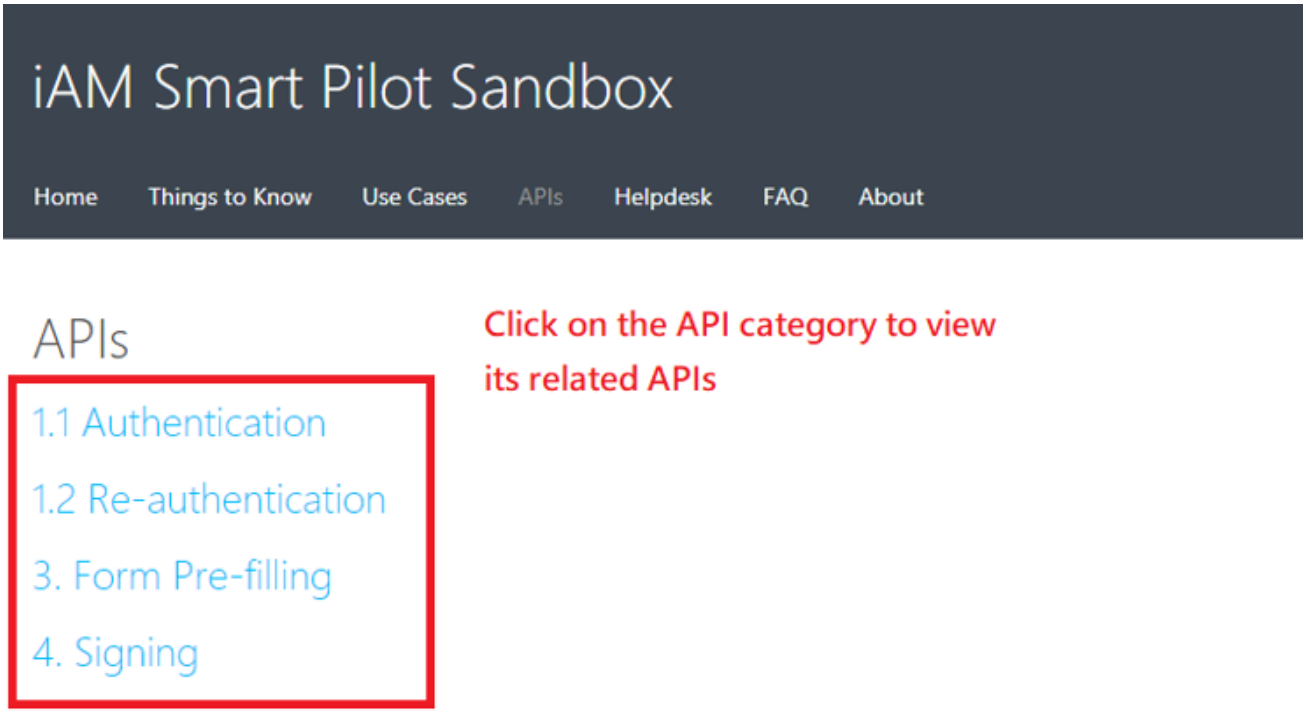


Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.4 APIs

This page consists of iAM Smart API specification and mockup trial. The three type of iAM Smart APIs: *Authentication*, *Form Pre-filling* and *Digital Signing*, are grouped under four API categories.

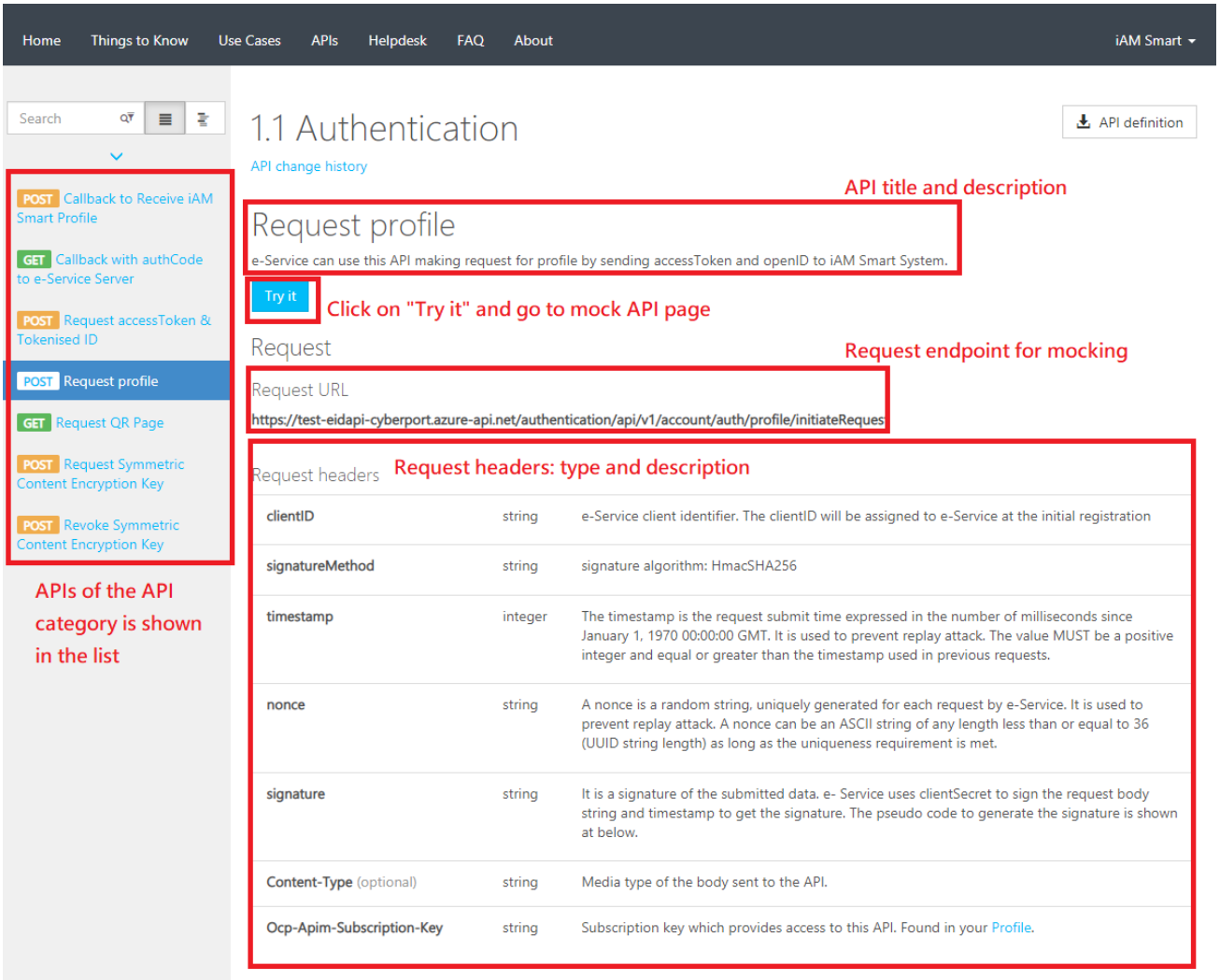
API Category
1.1 Authentication
1.2 Re-authentication
3. Form Pre-filling
4. Signing



Copyright © 2020 Hong Kong Cyberport Management Company Limited

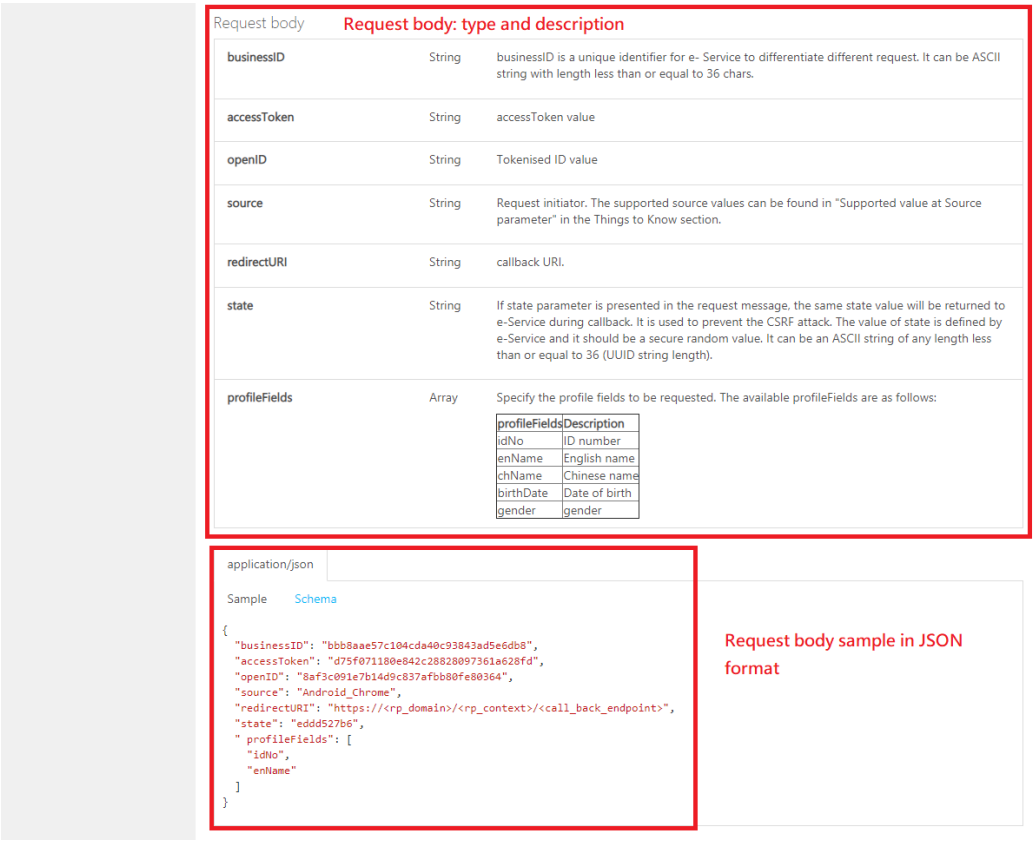
3.4.1 API Specification

A list of APIs under the selected API category is shown in the left panel. Developer can click each API to view its specification, such as request headers, request body, responses, etc. Calling code skeleton samples are also provided at the bottom of the page. Developers may reference the codes in the programming language to be adopted for implementation.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

- Request body description and its sample in JSON format



Request body — Request body: type and description

businessID	String	businessID is a unique identifier for e- Service to differentiate different request. It can be ASCII string with length less than or equal to 36 chars.
accessToken	String	accessToken value
openID	String	Tokenised ID value
source	String	Request initiator. The supported source values can be found in "Supported value at Source parameter" in the Things to Know section.
redirectURI	String	callback URI.
state	String	If state parameter is presented in the request message, the same state value will be returned to e-Service during callback. It is used to prevent the CSRF attack. The value of state is defined by e-Service and it should be a secure random value. It can be an ASCII string of any length less than or equal to 36 (UUID string length).
profileFields	Array	Specify the profile fields to be requested. The available profileFields are as follows:

profileFields	Description
idNo	ID number
enName	English name
chName	Chinese name
birthDate	Date of birth
gender	gender

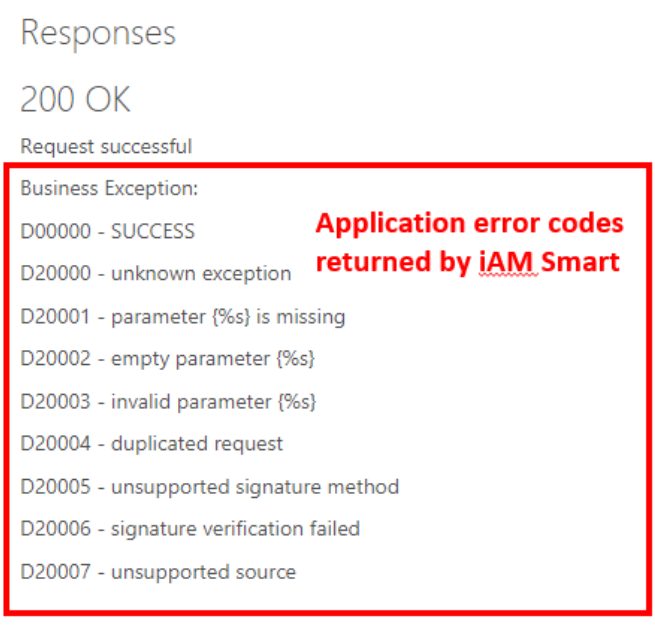
application/json

Sample Schema

```
{
  "businessID": "bbb8aae57c104cda40c93843ad5e6db8",
  "accessToken": "d75f071180e842c28828097361a628fd",
  "openID": "8af3c091e7b14d9c837afbb80fe80364",
  "source": "Android_Chrome",
  "redirectURI": "https://<rp_domain>/<rp_context>/<call_back_endpoint>",
  "state": "eddd527b6",
  " profileFields": [
    "idNo",
    "enName"
  ]
}
```

Request body sample in JSON format

- Application error codes in API response body



Responses

200 OK

Request successful

Business Exception:

D00000 - SUCCESS

D20000 - unknown exception

D20001 - parameter {%s} is missing

D20002 - empty parameter {%s}

D20003 - invalid parameter {%s}

D20004 - duplicated request

D20005 - unsupported signature method

D20006 - signature verification failed

D20007 - unsupported source

Application error codes returned by iAM Smart

Copyright © 2020 Hong Kong Cyberport Management Company Limited

- Sample API response in JSON format

Representations

application/json


```
{
  "txID": "<T=938ffb193b4b4370b6c2584372c6a588>",
  "code": "D00000",
  "message": "SUCCESS",
  "content": {
    "authByQR": true
  }
}
```


Response Sample in JSON format

- HTTP network error code

302 Moved Temporarily

The requested resource resides temporarily under a different URI.

400 Bad Request

The request could not be understood by the server due to malformed syntax.

401 Unauthorized

The request has not been applied because it lacks valid authentication credentials for the target resource.

Network Error code with description

403 Forbidden

The server understood the request but is refusing to fulfil it.

404 Not Found

The server has not found anything matching the Request-URI.

429 Too many requests

The user has sent too many requests in a given amount of time.

500 Internal Server Error

The server encountered an unexpected condition which prevented it from fulfilling the request.

503 Service Unavailable

The server is currently unable to handle the request due to a temporary overloading or maintenance of the server.

Copyright © 2020 Hong Kong Cyberport Management Company Limited

- Calling code skeleton sample in different programming languages

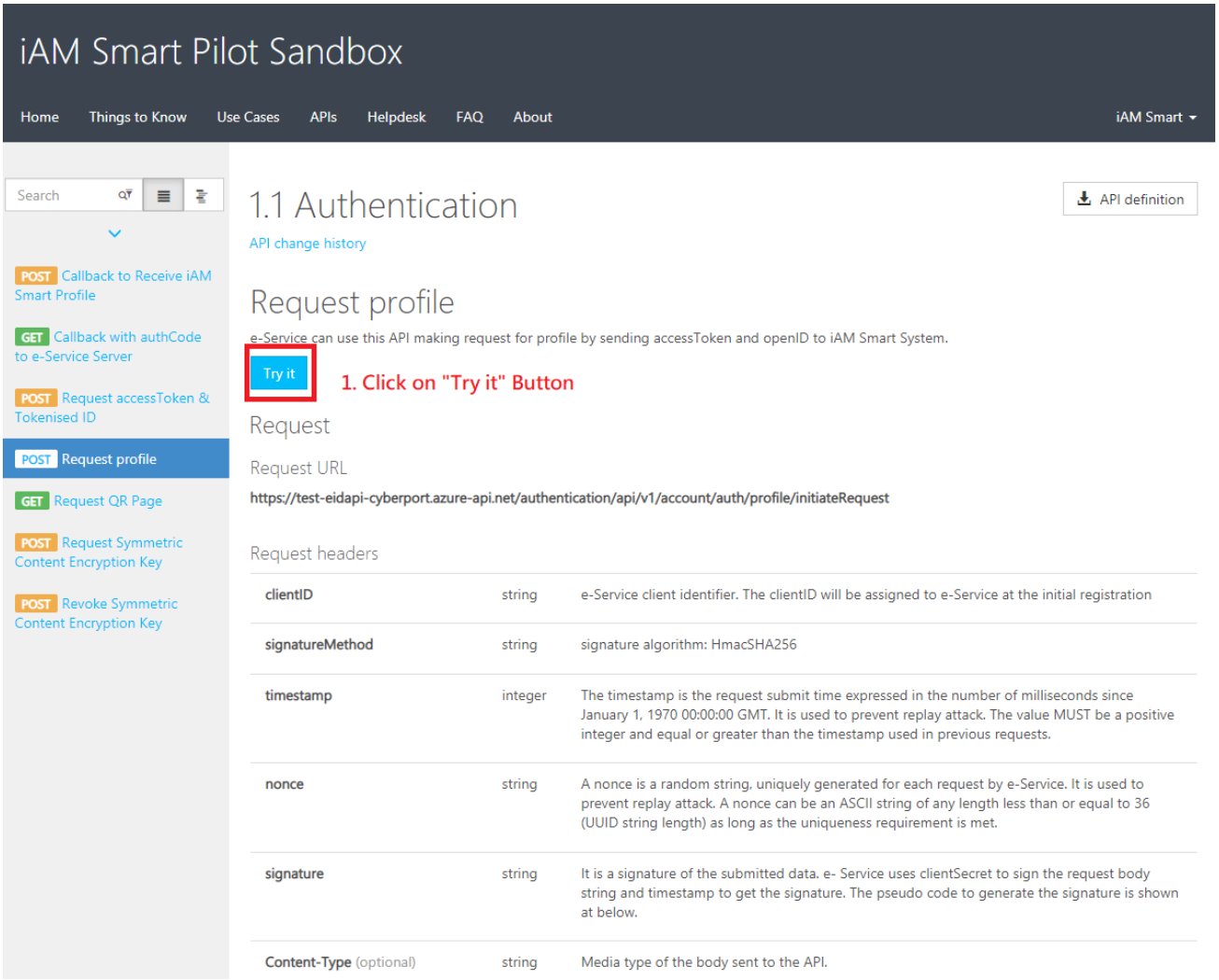
Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.4.2 API mockup

Developer can try out the API mockup by clicking the “Try it” button in the page.

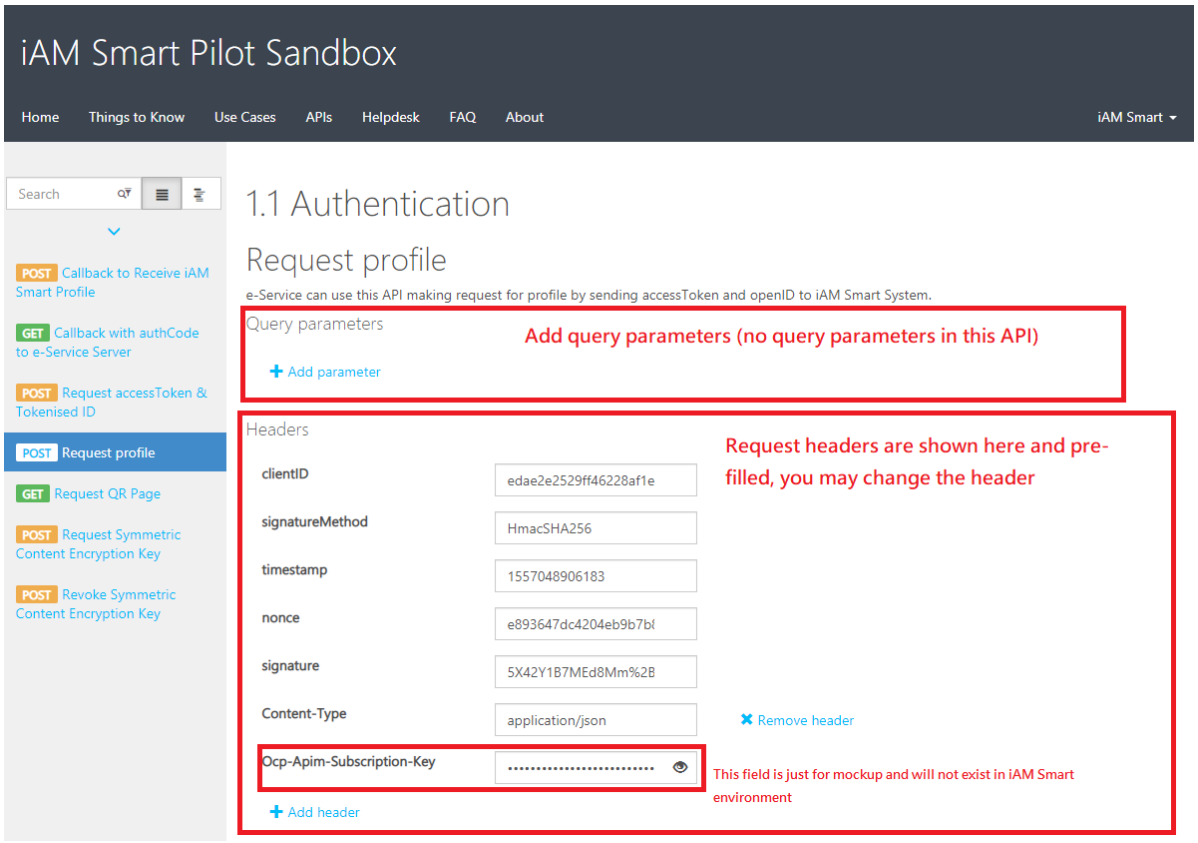
Sample request header and body in JSON format are provided. Developer can modify the parameter values in the HTTP request body with the predefined values given in “Parameters for mock” under section “Things to Know” as inputs for mockup trial.

Developer can also view the complete HTTP request at the bottom of the page. Please note that the subscription key here is a token required for developer to execute API mockup which will not exist in real iAM Smart API.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

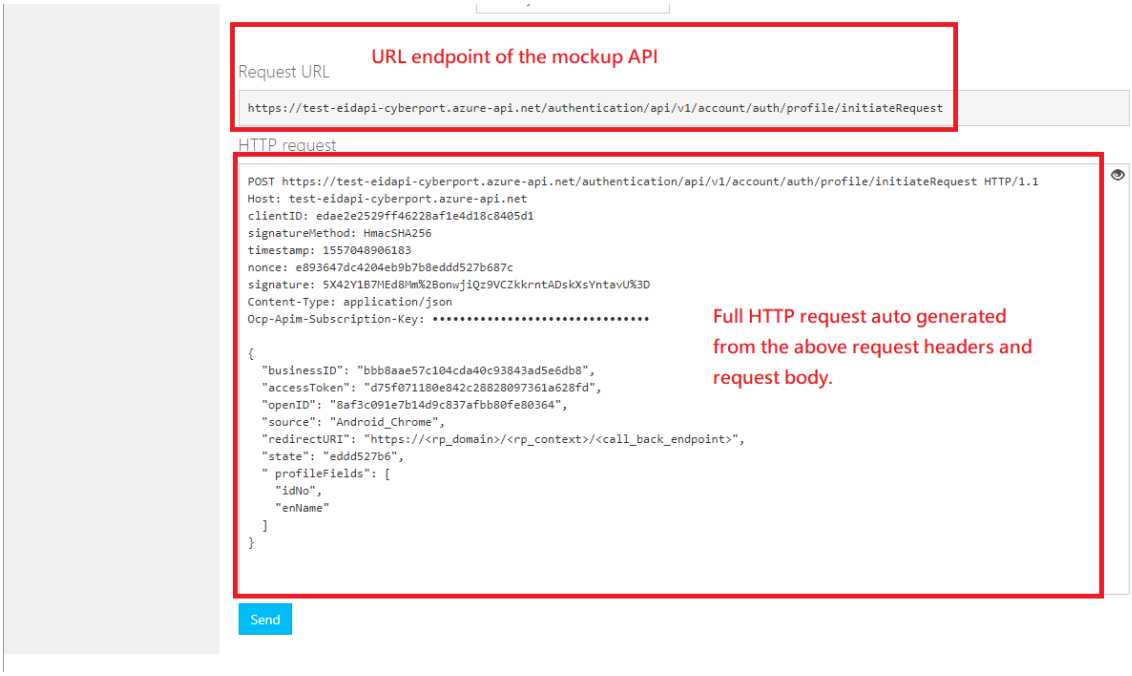
- Pre-filled request headers



- Pre-filled request body with predefined parameters that is editable for mockup trial

Copyright © 2020 Hong Kong Cyberport Management Company Limited

- URL endpoint for API mockup and full HTTP request

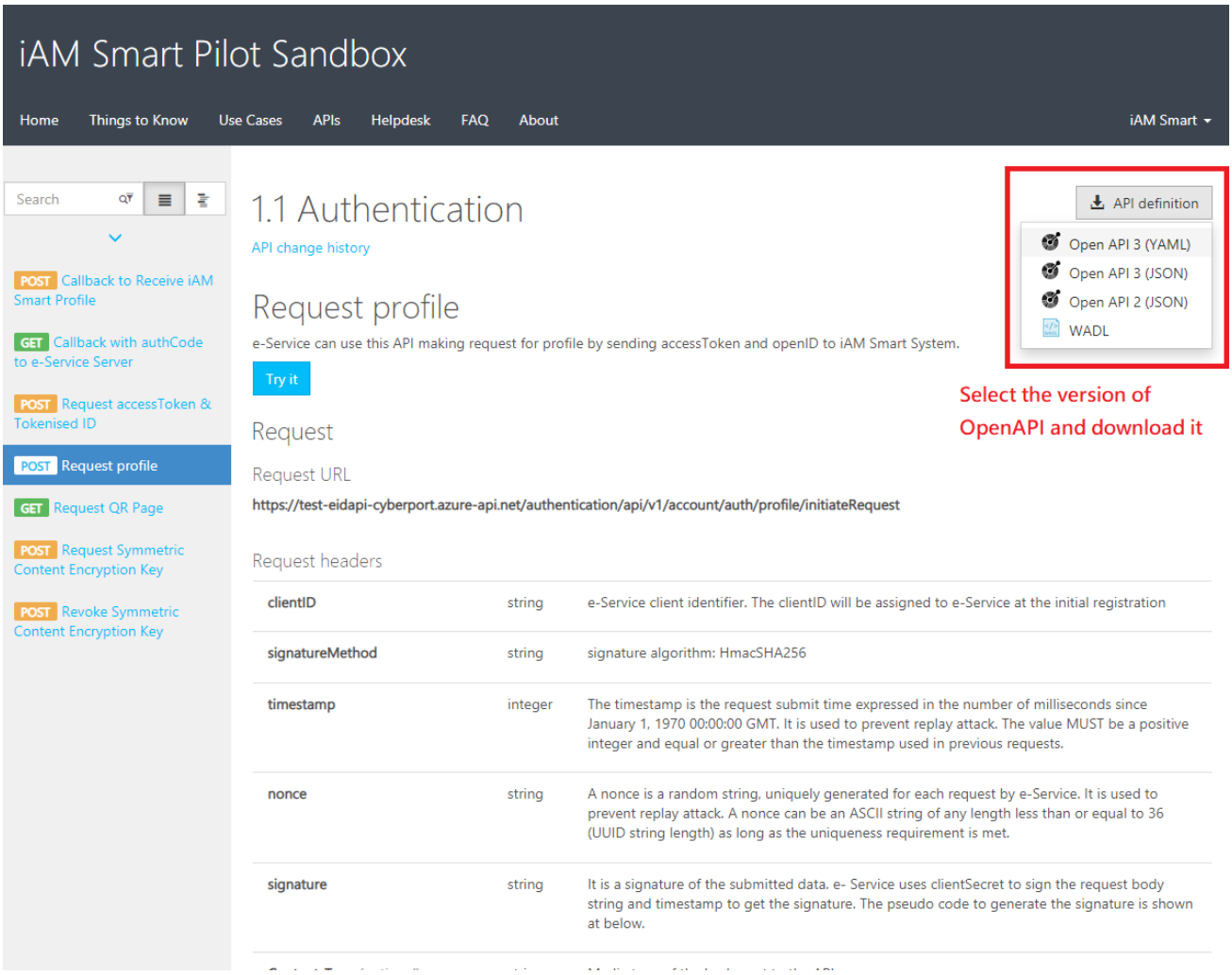


- Click “Send” button to execute the API mockup and get mockup response

Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.4.3 Download API for mockup

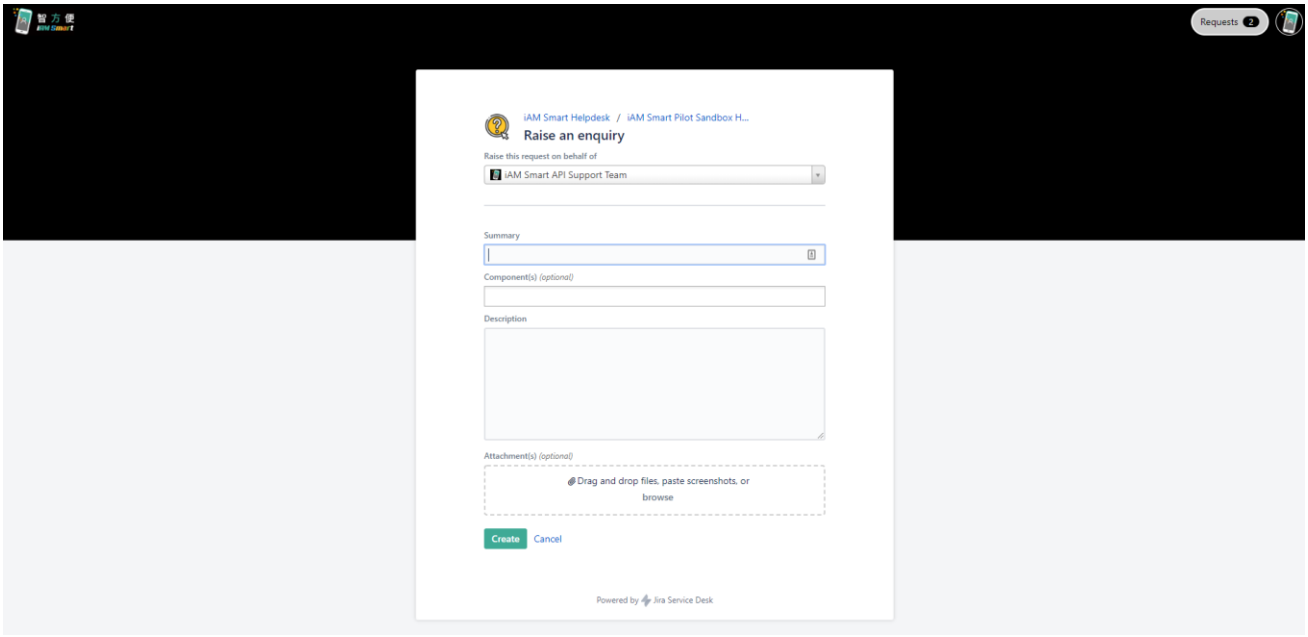
Developer can also try the API mockup with preferred development tools by downloading the OpenAPI file of the iAM Smart APIs.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.5 Helpdesk

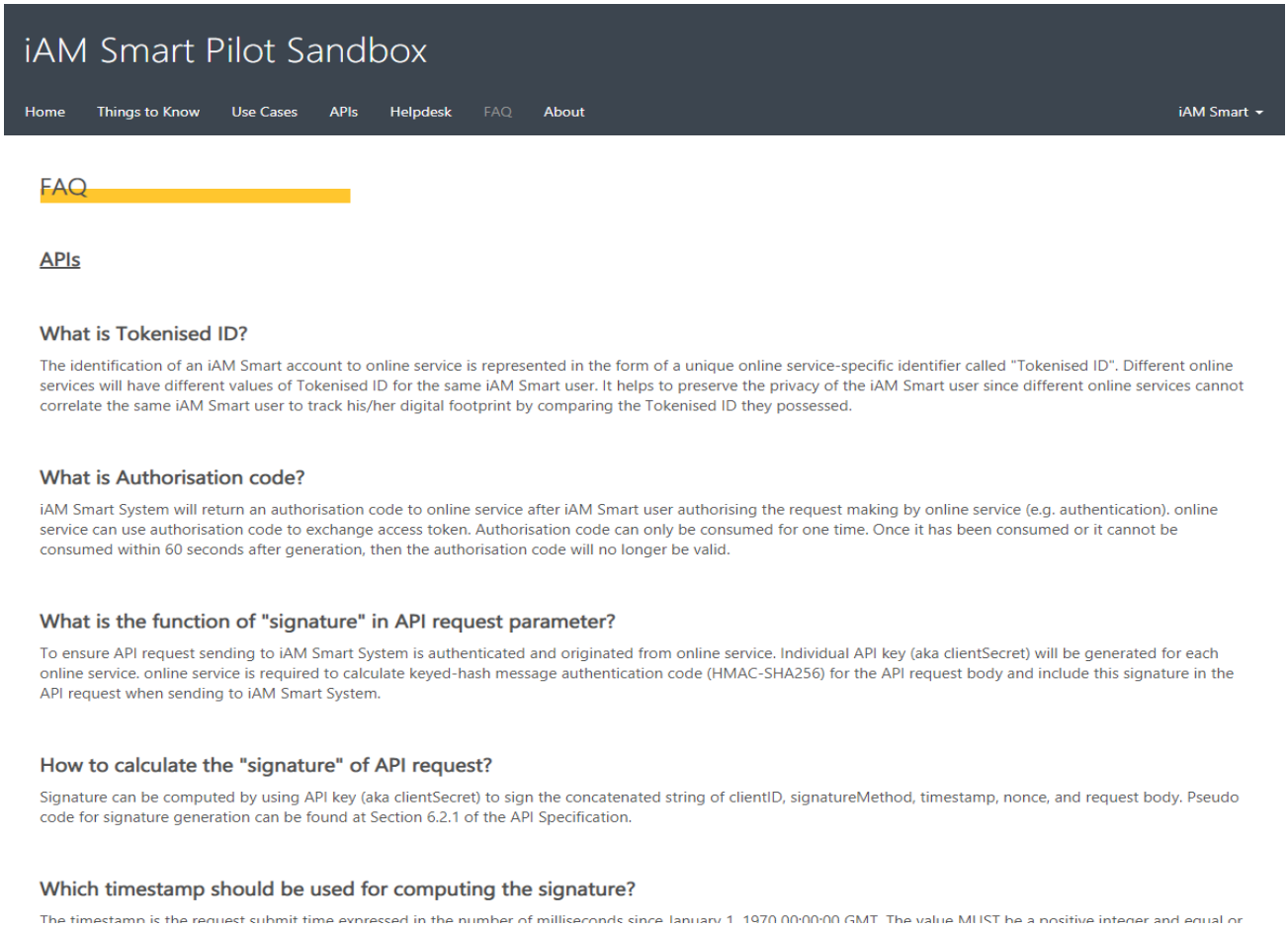
Developer can raise enquiries about the iAM Smart Pilot Sandbox. For details, please refer to the *User Guide for iAM Smart Pilot Sandbox Helpdesk.*



Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.6 FAQ

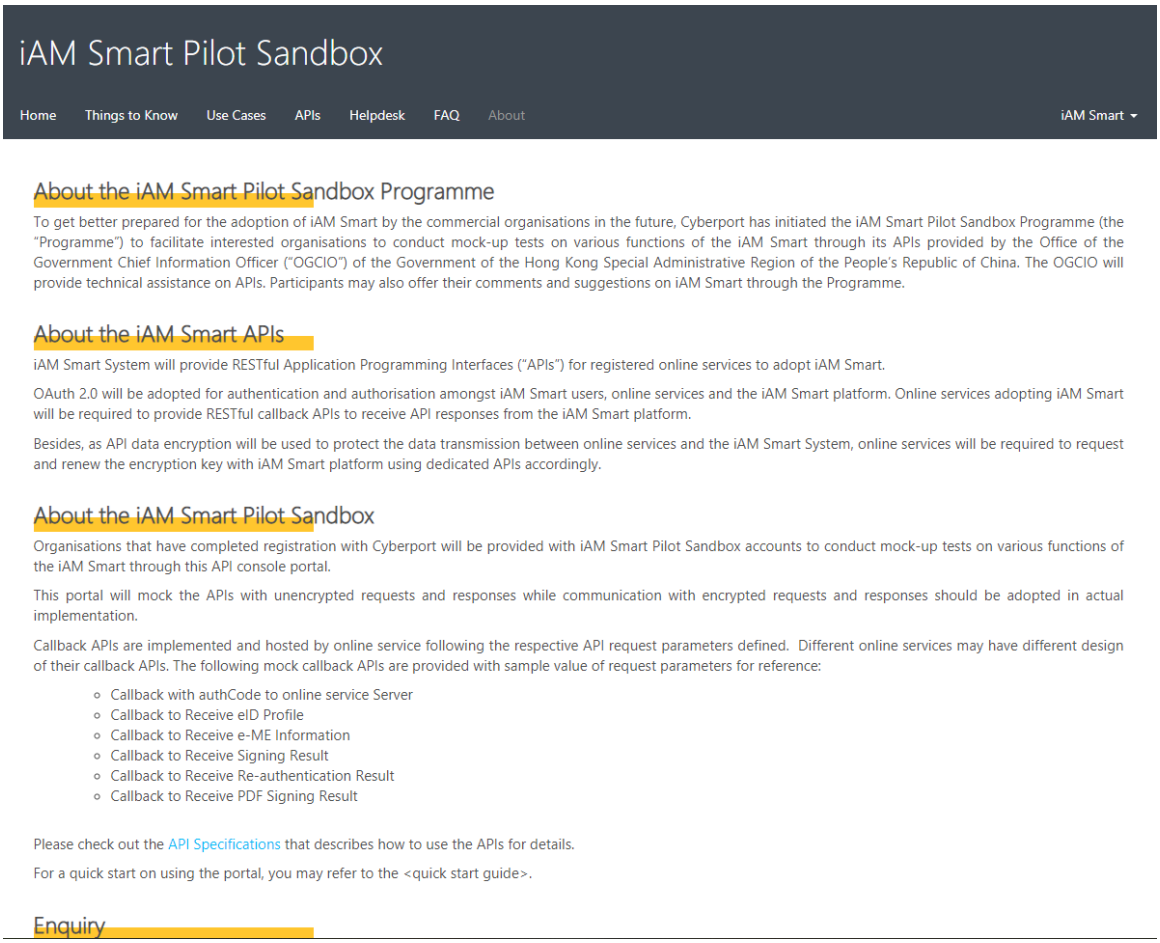
The page shows some frequently asked questions about iAM Smart APIs and will be updated regularly. Developer may search the page for answers before raising enquiries to the iAM Smart Pilot Sandbox Helpdesk.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

3.7 About

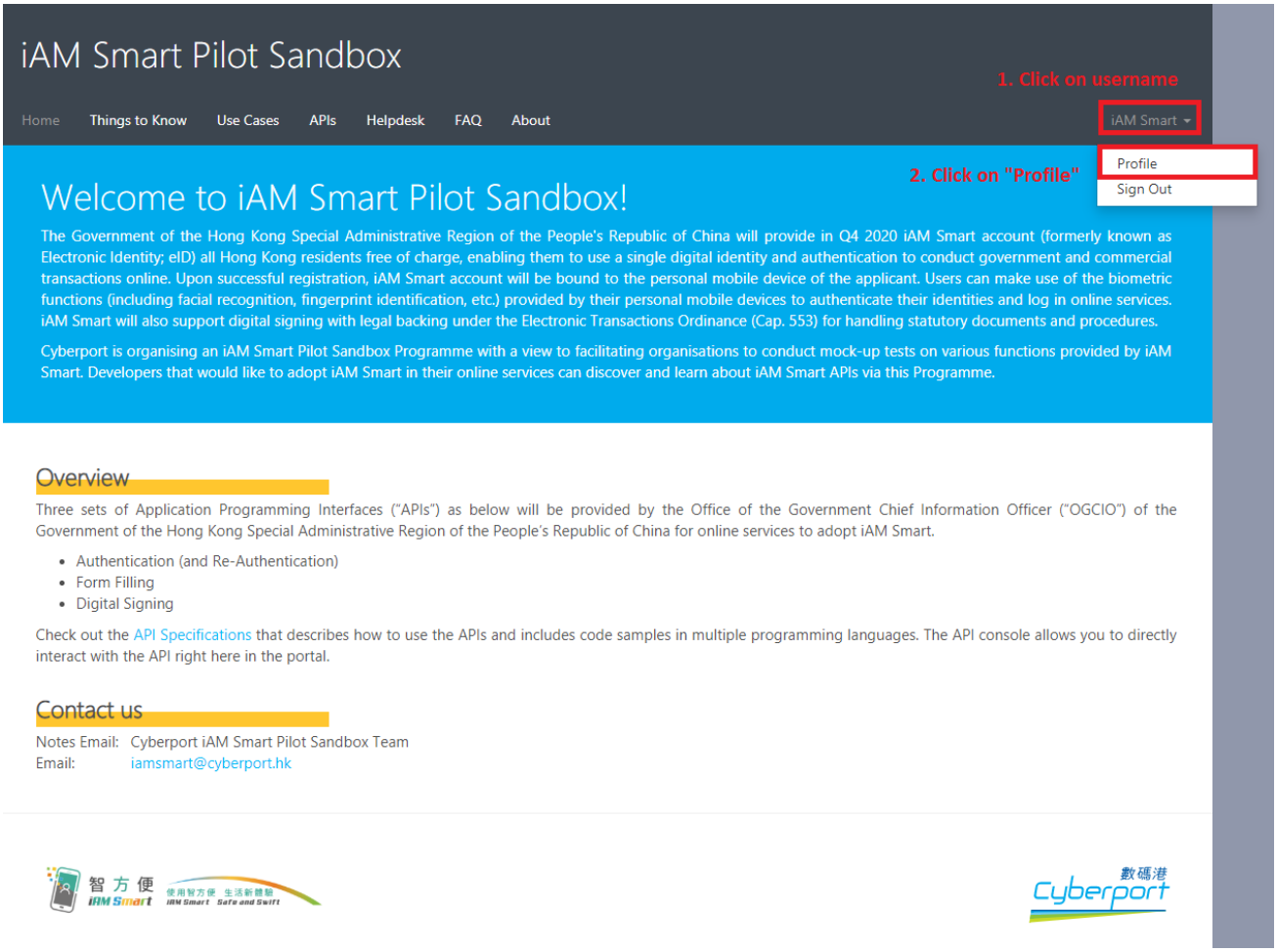
This page gives the general information about the iAM Smart Pilot Sandbox Programme.



Copyright © 2020 Hong Kong Cyberport Management Company Limited

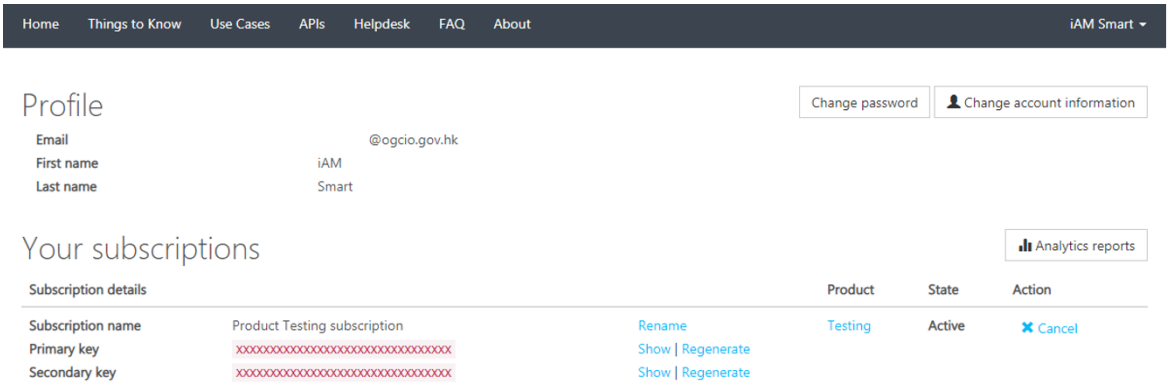
4. User Profile

User can view his/her user profile by clicking his/her username shown on the top right corner of the navigation bar.



- Information shown in user profile

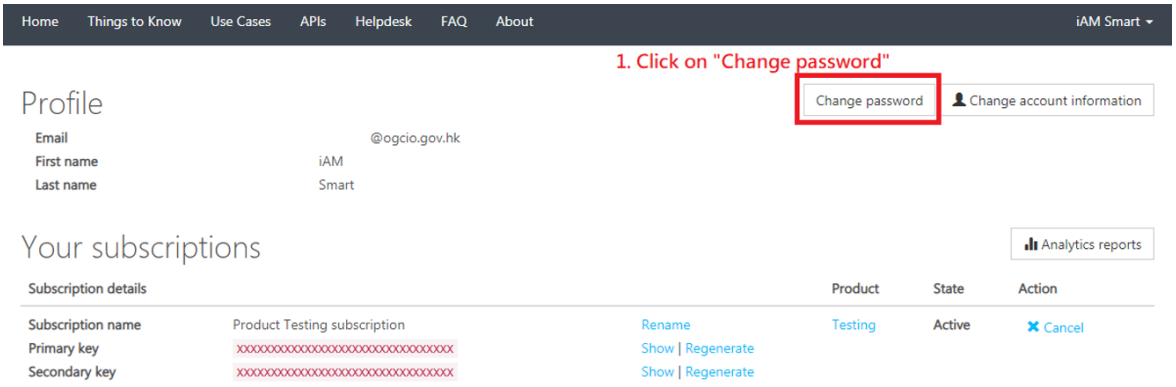
Copyright © 2020 Hong Kong Cyberport Management Company Limited



4.1. Change Password

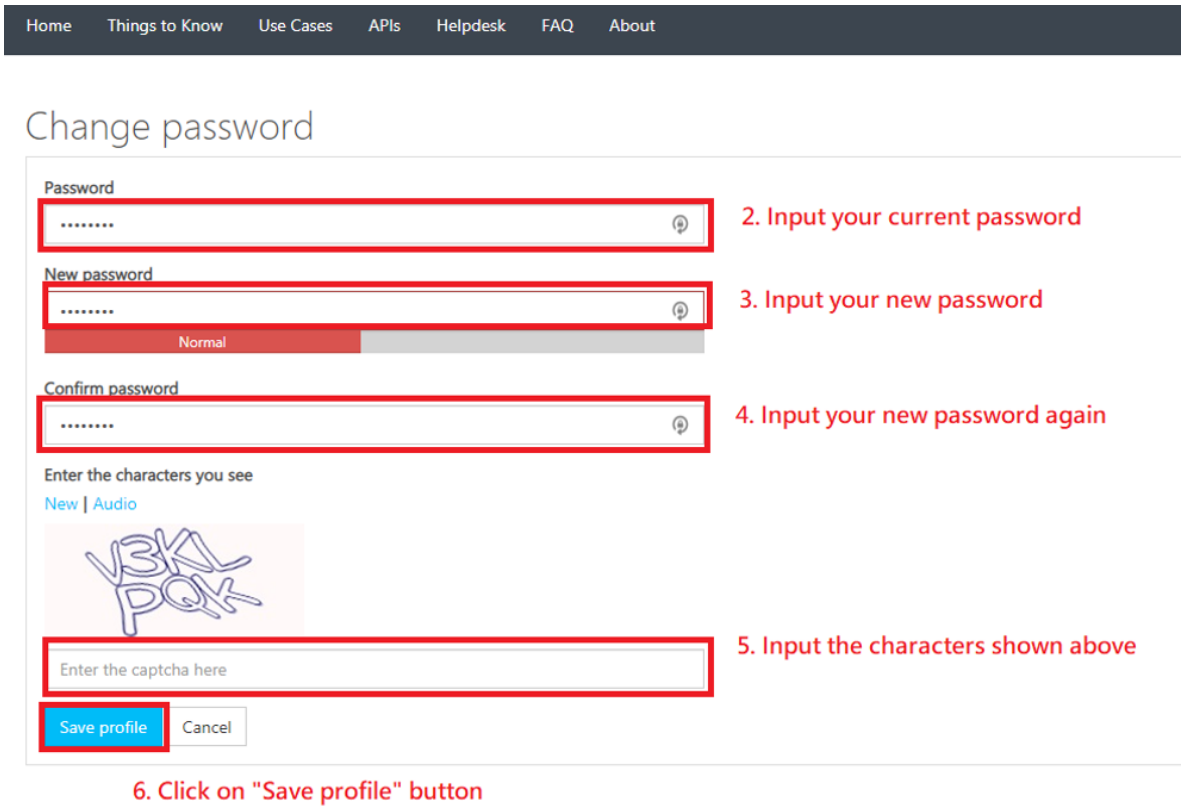
User can change his/her password in the user profile with the below steps.

- Click “Change password”



- Input current and new passwords

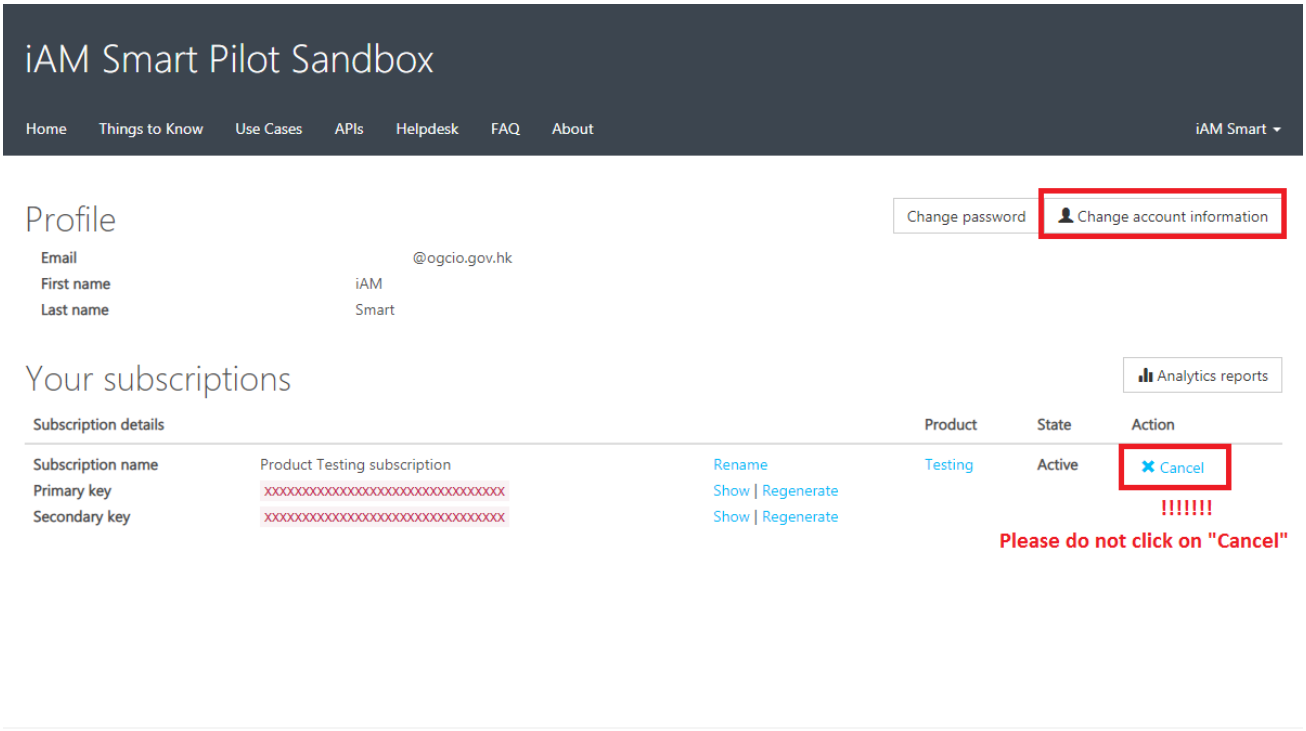
Copyright © 2020 Hong Kong Cyberport Management Company Limited



Copyright © 2020 Hong Kong Cyberport Management Company Limited

4.2. Notes

Information on user profile and subscriptions are created based on registration information provided for account creation. Although user can amend the account information and subscription status in his/her user profile, it is recommended to contact our customer service at *iamsmart@cyberport.hk* for changes. Meanwhile, it should be noted that Action "Cancel" cannot be made or else the subscription or the access right to view designated iAM Smart APIs will be lost.



~ End ~

Copyright © 2020 Hong Kong Cyberport Management Company Limited