CCSS Gateway

Integration Interface

All information contained in this document is highly confidential and proprietary.

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			Added request details for Request Second Level Info.					
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Introduction

CCSS Gateway is an integration layer between CCSS platform and PSF platform. PSF platform will capture and process its Visa applications and then send the relevant info to CCSS via API integration.

1.1 Purpose

This document explains the available interfaces in the CCSS Gateway module for external integration purpose. It shall serve as the only agreed communication protocol as per whatever stated in this document.

1.2 Audience

This is a highly restricted document. It shall be circulated internally to the authorized persons only with prior consent always required from xxxxx International.

1.3 Terminology

Abbreviation	Description
API	Application programming interface.
Id	An identification which could be in a form of
	string or number.

Data Type Definition

Below is the list of data types.

Data Type	Description	Min Value	Max Value
String	System.String	Empty string i.e. ""	Depend on the database
			storage size.
Integer	System.Integer	-2147483648	2147483647

Return Code 3

Below is the list of common return codes.

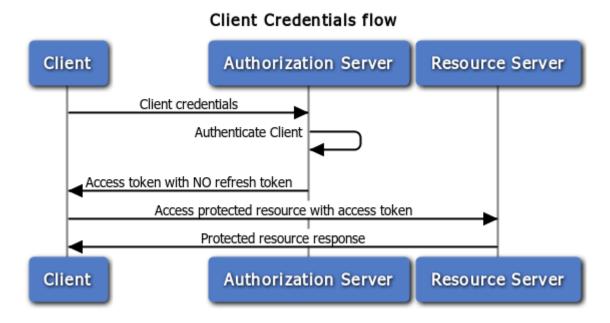
Code 200	Error Type	Error Detail	Remarks OK
400	param_error	A required parameter was missing or a parameter was malformed. This could be also due to resource cannot be returned.	BAD_REQUEST
401	invalid_auth	OAuth token was not provided or was invalid.	UNAUTHORIZED
403	not_authorized	Access is denied.	FORBIDDEN
500	server_error	Operation failed unexpectedly.	INTERNAL_SERVER_ERROR

4 CCSS API

4.1 Authenticate API Access

4.1.1 Functional Description

In order to gain access to CCSS APIs, client application must request an access token according to the OAuth 2.0 protocol. This access token must be inserted into the HTTP Request Header as Bearer Token during each API call to CCSS.



4.1.2 Request Description

- Request method: POST
- Request content type: application/x-www-form-urlencoded
- Response content type: application/json

URL format:

http://getaway.com/api/token

URL format for testing purpose only (Non-production):

http://getaway.com/api/token

4.1.3 Request Message

Field Name	Data Type	Length	Optional	Example	Remarks
client_id	String	Min: 0 char Max: Max length of System.String	No	"123456"	Client Id as per provided to authenticate the client for this request.
client_secret	String	Min: 0 char Max: Max length of System.String	No	"123abc"	Client secret as per provided to authenticate the client for this request.

Request Example:

POST /connect/token HTTP/1.1

 ${\tt Content-Type: application/x-www-form-urlencoded}$

client_id=123456&client_secret=123abc

4.1.4 Response Message

Field Name	Data Type	Length	Optional	Example	Remarks
access_token	String	Min: 0 char Max: Max length of System.String	No	"eyJhbGciOi"	The access token string as issued by the authorization server.
expires_in	Integer	-	No	3600	Validity of the access token in seconds.
error	String	Min: 0 char	Yes	"invalid_request"	Error responses are returned with an HTTP

M	ax: Max	400 status
le	ngth of	code (unless
Sy	stem.String	specified
		otherwise).

Response Example (Successful):

Response Example (Unsuccessful):

```
HTTP/1.1 400 Bad Request
Content-Type: application/json; charset=UTF-8
Cache-Control: no-store, no-cache, max-age=0
Pragma: no-cache
{
         "error": "invalid_client"
}
```

4.1.5 Return Error

Error	Error Description
invalid_request	The request is missing a parameter, so the server can't proceed with the request. This may also be returned if the request includes an unsupported parameter or repeats a parameter.
invalid_client	Client authentication failed, such as if the request contains an invalid client ID or secret. Send an HTTP 401 response in this case.
invalid_grant	The authorization code (or user's password for the password grant type) is invalid or expired. This is also the error that would be returned if the redirect URL given in the authorization grant does not match the URL provided in this access token request.
unauthorized client	This client is not authorized .

4.2 Create Applicant with First Level Info

4.2.1 Functional Description

This method is for PSF to call CCSS upon each applicant record to be sent over to CCSS. This record will contain the first-level information only; whereas second-level information will be requested by CCSS to PSF on demand basis.

4.2.2 Request Description

Request method: POST

• Request content type: application/json

Response content type: application/json

URL format:

http://getaway.com/api/applicants/

URL format for testing purpose only (Non-production):

http://getaway.com/api/applicants/

4.2.3 Request Message

Data Type	Length	Optional	Example	Remarks
String		Yes	"123456"	Client Id as per provided to authenticate the client for this request.
String	Min: 0 char Max: Max length of System.String	Yes	"eyJhbGciOi"	The access token string as issued by the authorization server.
String		Yes	"test"	Business title
String	Min: 0 char	Yes	"jsonObject"	Business entity
	Max: Max length of			
	Type String String	String String Min: 0 char Max: Max length of System.String String Min: 0 char Max: Max	String Yes String Min: 0 char Yes Max: Max length of System.String String Yes String Min: 0 char Yes Max: Max length of	String Yes "123456" String Min: 0 char Yes "eyJhbGciOi" Max: Max length of System.String String Yes "test" String Min: 0 char Yes "json0bject" Max: Max length of

Request Example:

```
POST /api/applications HTTP/1.1
Content-Type: application/json
"client_id":"123456",
"access_token":"ffdb07f492c74fa9b1058c55dc4931cb",
"title":"test",
"content":"{
  "firstNameEnglish": "Xiu Lian",
  "lastNameEnglish": "Lee",
  "firstNameChinese": "秀莲",
  "lastNameChinese": "李",
  "formerFirstNameEnglish": "Xiu Lian",
  "formerLastNameEnglish": "Li",
  "formerFirstNameChinese": "绣莲",
  "formerLastNameChinese": "李",
  "gender": "Female",
  "dateOfBirth": "1980-12-31",
  "placeOfBirth": "Shenzhen",
  "maritalStatus": "Married",
  "identityNumber": 622825199303180010,
  "nationality": "Chinese",
  "ethnicity": "Han",
```

```
"ancestralHome": "Suzhou",
   "domicile": "1881 Bao'an S Rd, CaiWuWei, Luohu Qu, Shenzhen Shi, Guangdong Sheng ,China,
518000",
   "photoUrl": "",
   "passport": {
        "number": "G05473471",
        "type": "P - Ordinary",
        "placeOfIssue": "Beijing",
        "pictureUrl": ""
      },
      "visa": {
        "category": "Tourist Visa",
        "type": "Single Entry Visa"
      },
      "phoneNumber": 86 13522568027,
      "email": "xiulian@qq.com"
}
```

4.2.4 Response Message

Field Name	Data Type	Length	Optional	Example	Remarks
meta.code	Integer	-	No	200	Refer to section 4.1.5.
meta.errorType	String	Min: 1 char Max: Max length of System.String	Yes	"server_error"	Refer to section 4.1.5.
meta.errorDetail	String	Min: 1 char Max: Max length of System.String	Yes	"Operation failed unexpectedly"	Refer to section 4.1.5.
meta.requestId	String	Min: 1 char Max: Max length of System.String	No	"0HLE9NJNTGF37:00000001"	Tracking Identifier generated per request call.
response	String	Min: 1 char Max: Max length of System.String	No	"{}"	Result will be always empty in JSON format.

Response Example (Successful):

Response Example (Unsuccessful):

```
HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=UTF-8
       "meta": {
              "code": 500,
              "errorType": "server_error",
               "errorDetail": "Operation failed unexpectedly",
               "requestId": "OHLE9NJNTGF37:00000001"
       },
"response": {
       }
```

4.2.5 Return Code

Code	Error Type	Error Detail	Remarks
200			OK
400	param_error	A required parameter was missing or a parameter was malformed. This could be also due to resource cannot be returned.	BAD_REQUEST
401	invalid_auth	OAuth token was not provided or was invalid.	UNAUTHORIZED
403	not_authorized	Access is denied.	FORBIDDEN
500	server_error	Operation failed unexpectedly.	INTERNAL_SERVER_ERROR