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# CCSS Gateway

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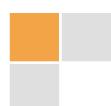
Integration Interface

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<b>Document Control</b>	
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<b>Document History</b>					
Date	Version	Editor	Change Description	Reviewed By	Review Date
17 Apr 2018	1.0	xxxxx	First write-up.		
11 May 2018	1.1	xxxxx	Added Authenticate API Access method.		
27 May 2018	1.2	xxxxx	Modified error detail for return codes.  Further modification as per highlighted in yellow color.  Added Section 5: PSF API.		
12 Jun 2018	1.3	xxxxx	Change in request message structure for Create Applicant with First Level Info.  Added request details for Request Second Level Info.		
15 Jul 2018	1.4	xxxxx	Revised fields for second level info.		



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## 1 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

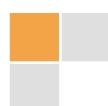
This document explains the available interfaces in the CCSS Gateway module for external integration purpose. It shall serve as the only agreed communication protocol as per whatever stated in this document.

### 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 xxxx International.

### 1.3 Terminology

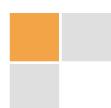
Abbreviation	Description
API	Application programming interface.
Id	An identification which could be in a form of string or number.



## 2 Data Type Definition

Below is the list of data types.

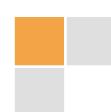
Data Type	Description	Min Value	Max Value
String	System.String	Empty string i.e. ""	Depend on the database storage size.
Integer	System.Integer	-2147483648	2147483647



### 3 Return Code

Below is the list of common return codes.

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
500	server_error	Operation failed unexpectedly.	INTERNAL_SERVER_ERROR

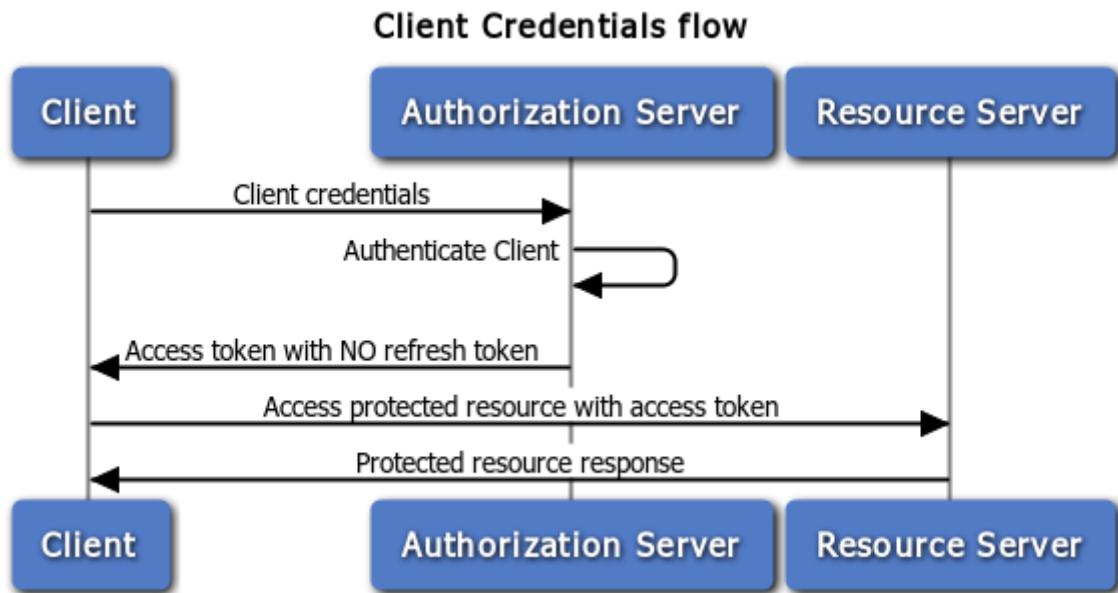


## 4 CCSS API

### 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: GET
- 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:

```
GET /api/token HTTP/1.1
http://getaway.com /api/token?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 Max: Max length of System.String	Yes	"invalid_request"	Error responses are returned with an HTTP 400 status code (unless specified otherwise).
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.



### Response Example (Successful):

```
HTTP/1.1 200 OK
Cache-Control: no-store, no-cache, max-age=0
Pragma: no-cache
Content-Type: application/json; charset=UTF-8

{
    "access_token": "eyJhbGciOiJSUzI1NiIiImtpZCI6ImY2NjYwYWE5YTkyNWEzYjRiMGJlNmFhMThmNjlkY2Y2IwidHlwIjois1dUIn0.e
yJuYmYiOjE1Mjg2MTkwMjEsImV4cCI6MTUyODYyMjYyMSviaXNzIjoiHR0cHM6Ly9sb2NhbGhvc3Q6NTAwMSIsImF1ZCI
6WyJodHRwczovL2xvY2FsaG9zdDo1MDAxL3Jlc291cmNlcycIsImdhGv3YXkiXSwiY2xpZW50X21kIjoiY2Nzcy51bmRwb
21udCIsInNjb3B1IjpbImdhGv3YXkiXX0.Qt19ByUgYxqvdRDwvvt2jXmoaV4tdsqlwpt16i3DQsVwYpEyjJQ2xXsEuEg
60-xrZLrSte_qLqt-ZIbJW913KtQwxkuEAUaJFcPAbFa14HBSiY-
jT0tHu2ikM876gMVC5rHpLALOyTrH2oJMIJRVNL5QIm_Lj_v60kp0sT98ElWk2vBe9USTQiVQhSRKcn0rZoGvgDqh6K3Cc
aONJbzQTc3W-
zpUX7NV7a6wOMKJLLygbYL9U5c2Kkf547Px_GS0sWp_2UB0TT2eW4WZQVJBpYhAvYeqvwEFUx_1WTlgPwDee_qMxqS4bL
_cegWiOk4cVSda9WS_6wjB4v6gOTOGA",
    "expires_in": 3600,
    "client_id": "123456",
    "error": null
}
```

### 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

{
    "access_token": null,
    "expires_in": null,
    "client_id": null,
    "error": "appkey or secret not be null"
}
```

### 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.
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:

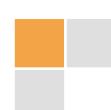
```
http://getaway.com/api/applicants/
```

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

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

### 4.2.3 Request Message

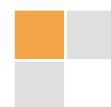
Field Name	Data Type	Length	Optional	Example	Remarks
client_id	String	Min: 0 char Max: Max length of System.String	Yes	"123456"	Client Id as per provided to authenticate the client for this request.
access_token	String	Min: 0 char Max: Max length of System.String	Yes	"eyJhbGciOi..."	The access token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



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**Request Example:**

```
POST /api/applications HTTP/1.1
http://getaway.com /api/applications?client_id=123456&access_token=ffdb07f492c74fa9b1058c55dc4931cb
Content-Type: application/json
{
    "firstNameEnglish": "Xiu Lian",
    "lastNameEnglish": "Lee",
    "firstNameChinese": "秀莲",
    "lastNameChinese": "李",
    "formerFirstNameEnglish": "Xiu Lian",
    "formerLastNameEnglish": "Li",
    "formerFirstNameChinese": "秀莲",
    "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",
"creditscore": "0"
}

```

#### 4.2.4 Response Message

Field Name	Data Type	Length	Optional	Example	Remarks
data	String	-	No	jsonObject	Refer to section 4.1.5.
success	boolean	-	No	true	Whether the request was successful

##### Response Example (Successful):

```

HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
    "data":null,
    "success":true
}

```



**Response Example (Unsuccessful):**

```
HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=UTF-8

{
    "data":null,
    "success":false

}
```

**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
500	server_error	Operation failed unexpectedly.	INTERNAL_SERVER_ERROR

