Ababil API Authentication Guide

Version-2

Introduction

Purpose
[This document details the API authentication and authorization]

1. Request for a token with username and password

To access an API user needs to request a URL with a username and password

1.1   Endpoint   : **<URL>/oauth/token**

1.2:   METHOD   : **POST**

1.3   Request parameter:

Request Example

```
{
   "grant_type" : "Password",
   "username" : "a_user_name",
   "password" : "user_password"
}
```

1.4   Response:

Response Body Example

```
{
    "access_token" : "ee6b4193-f09c-42a5-b8d0-7083069565b6",
    "refresh_token" : "7c1bd1b0-bbee-417e-bc04-46c5e388391e",
    "token_type" : "bearer",
    "expires_in" : 600
}
```

You will get F-TOKEN in the response header

```
KEY: "F-TOKEN"
VALUE: "dbb3aff6-ba55-43a5-955d-bda8788781a2"
```

1.5 Error Response Example

```
{
    "error": "unsupported_grant_type",
    "error_description": "Unsupported grant type: password"
}
```

2. API Alive Enquiry

Before accessing any service you can check whether the CBS service is running or not.

2.1 URL : **<URL>/api/echo**

2.2 METHOD: **GET**

2.3 Response:

"I am alive"

3. Access any service

To access any API service, you need to provide access_token and F-TOKEN in the request header.

3.1: Request with access_token and F-TOKEN

You will get updated F-TOKEN in the last response header.

3.1.1 Request Example:

These are the 'Headers" parameter in the request section

```
KEY: "F-TOKEN"
VALUE: "dbb3aff6-ba55-43a5-955d-bda8788781a2" (You will get updated
        F-TOKEN in the last response header )
KEY: "Content-Type"
VALUE: "application/json'"
KEY: "Authorization"
VALUE: "bearer ee6b4193-f09c-42a5-b8d0-7083069565b6" (You will get
        this access_token from authentication response)
```

3.2: Response (F-TOKEN in header)

3.2.1: Response Body

You will get an API response in the Response body.

3.2.2: Response Header

Additionally, you will get F-TOKEN in the response header which will be used to request for the next API access.

```
KEY: "F-TOKEN"
VALUE: "daefa3d3-5363-48fa-85ad-7592dd9a8a17"
```

if access_token expires then Request for access token with refresh token. The expiration time is configurable from api-admin UI

4.Request With Refresh Token

4.1)   Endpoint   : **<URL>/oauth/token**
4.2)   METHOD   : **POST**

4.3 Request Example

```
{
    "grant_type" : "refresh_token",
    "refresh_token" : "7c1bd1b0-bbee-417e-bc04-46c5e388391e"
}
```

4.4 Response (access_token, F-TOKEN):

Response Example
This can be found in the "Body"

```
{
    "access_token" : "68cacf83-0828-43e2-9155-e4213dd3603c",
    "refresh_token" : "1caf1bf5-7024-4434-8512-583d9bd72ccb",
    "token_type" : "bearer",
    "expires_in" : 600
}
```

You will get F-TOKEN in the response header

```
KEY: "F-TOKEN"
VALUE: "5e246c12-aa26-49bf-8b98-4c9d9061c76f"
```

4.5 Error Response Example

```
{
    "error": "unsupported_grant_type",
    "error_description": "Unsupported grant type: refresh_token"
}
```

Ababil API Process Cycle

```
Response Body

{
    "access_token": "token",
}
```

API Client ← ——————API Response——————

```
Response Header

F-Token:{F-Token}
```

Has Access Token? —No→ ○ ———API Request———→ API AUTH Server

```
Request Body

{
    "grant_type": "password",
    "username": "username",
    "password": "password"
}
```

Yes

Call API

```
Request Header

Content-Type:application/json
Authorization: Bearer {access_token}
F-Token:{F-Token}
```

```
Request Body

{
    JSON BODY
}
```

CBS SERVICE

API Response

API Client