THE OPENAPI

Banglalink Digital

Version 1.0, 09-07-2023

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Chapter 1. API Specifications

This API is intended to get loyalty member's points and segmentation information.

1.1. Loyalty Get Member Profile API

Table. Request Type

Method	URL
POST	/openapi-lms/loyalty2/get-member-profile

Table. Headers

Parameter	Value
authorization	Bearer *Token*
Content-Type	application/vnd.banglalink.apihub-v1.0+json

> *Authorization*
>
> Services are secured by default. Before invoking any service, bearer token/access token need to retrieve using OAuth2 - Authorization Code Flow. Details have been discussed here.

Table. Request parameters

Property	Mandatory	Data Type	Description	Example
request	YES	object		{ "channel": <channel_name>, "msisdn": "88014########", "transactionID": "LMS34197492" }

Listing. Sample request (json)

```
curl -X POST "http://<IP>:<Port>/openapi-lms/loyalty2/get-member-profile"
-H "accept: application/vnd.banglalink.apihub-v1.0+json"
-H "authorization: Bearer eyJhbGciOiJS... Fzf-ANSw"
-H "Content-Type: application/json" -d "{\"channel\": \"LMSMYBLAPP\",\"msisdn\": \"88014########\",\"transactionID\": \"LMS34197492\"}"
```

Listing. Sample response (json)

```json
{
  "msisdn": "88014########",
  "transactionID": "LMS34197492",
  "statusCode": "0",
  "statusMsg": "SUCCESS",
  "responseDateTime": "10-07-2023 14:49:19",
  "loyaltyProfileInfo": {
    "availablePoints": "10409080",
    "currentTierLevel": "SIGNATURE",
    "expiryDate": "31-12-2024",
    "pointsExpiring": "10409080",
    "enrolledDate": "21-11-2022 10:31:30",
    "enrolledChannel": ""
  }
}
```

Table. Response type

Parameter	Mandatory	Data Type	Description
msisdn	YES	String	Customer MSISDN
transactionID	YES	String	Transaction ID
statusCode	YES	Integer	status code (0 means success)
statusMsg	YES	String	Status
responseDateTime	YES	Date	Time of Response
loyaltyProfileInfo	YES	JSON Object	Current loyalty Profile Information

Chapter 2. Exception

2.1. 401 : Unauthorized

Listing. Sample response (json)

```
{
  "title": "Unauthorized",
  "status": 401,
  "detail": "Full authentication is required to access this resource",
  "microservice": "openapi-lms",
  "path": "/loyalty2/get-member-profile",
  "message": "error.http.401"
}
```

2.2. 403 : Forbidden

Listing. Sample response (json)

```
{
  "title": "Forbidden",
  "status": 403,
  "detail": " Access is denied ",
  "microservice": "openapi-lms",
  "path": "/loyalty2/get-member-profile",
  "message": "error.http.403"
}
```

2.3. 400 : Bad request

Listing. Sample response (json)

```
{
  "messgeCode": "ERR",
  "message": "Error",
  "data": {
    "errors": [
      {
        "detail": "Not found.",
        "source": {
          "pointer": "/data/attributes/detail"
        },
        "status": "404",
        "meta": {
          "error_code": "not_found"
        }
      }
    ]
  }
}
```

2.4. 404 : Not Found

2.5. Other Exceptions

```
{

   "message": "Invalid Mask name",

   "status": false

}
```

Chapter 3. Security Configuration

3.1. Access token generation process

Please follow steps described in attached document for token generation process.
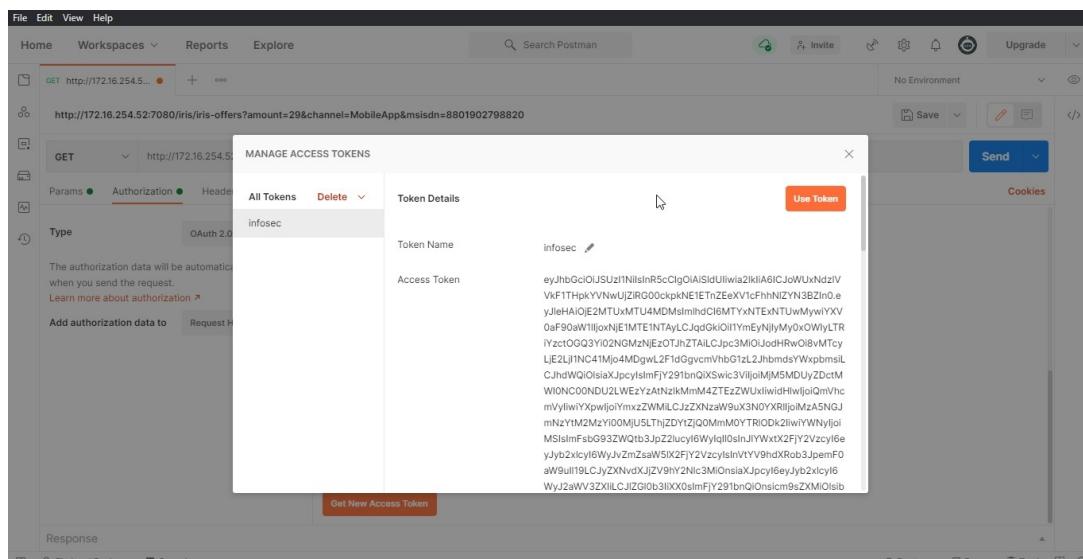

Openapi_Authoriza
tion_Documentation

3.2. Obtain access token using Postman

To obtain access token using postman, follow the bellow steps:

1. Configure Postman

Configuration Name	Value
Token Name	<token_name> i.e. *customer-information_token*
Grant Type	Password Credentials
Access Token URL	http://<ip>:<port>/auth/realms/dev/ protocol/openid-connect/token
Client ID	<client_id>
Client Secret	<client_secret>
Username	<client_username>
Password	<client_password>
Scope	openid

2. After successful sign in token will be generated and shown like bellow:

3. Press **[Use Token]** to use newly generated JWT token.

3.3. Decode JWT token data

To view / investigate generated JWT token follow the bellow steps:

1. Copy newly generated JWT token.

2. Go to JWT website.

3. Paste the JWT token.

Listing 8. sample JWT token

```
eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJoWUxNdzlVVkF1THpkYVNwU
jZiRG00ckpkNE1ETnZEeXV1cFhhNlZYN3BZIn0.eyJleHAiOjE2ODkwNzAxNDksImlhdCI6MT
Y4ODk4Mzc0OSwianRpIjoiMzQ3MDc2NjMtYWFjOC00ZTFkLWJhOTktODgzYTAxMDBkNTE2Iiw
iaXNzIjoiaHR0cDovLzE3Mi4xNi44LjEzMjo4MDgwL2F1dGgvcmVhbG1zL2JhbmdsYWxpbmsi
LCJhdWQiOiJhY2NvdW50Iiwic3ViIjoiNmU0Nzk0OTAtNWRlMC00ZmYxLThiMmUtMWU2MmUwY
2I4MGE1IiwidHlwIjoiQmVhcmVyIiwiYXpwIjoib3BlbmFwaS1sbXMiLCJzZXNzaW9uX3N0YX
RlIjoiNWY3NGM3NDUtMTRlYy00NmEyLTkwM2MtOGU4MjA2ODkxYWJlIiwiYWNyIjoiMSIsImF
sbG93ZWQtb3JpZ2lucyI6WyIqIl0sInJlYWxtX2FjY2VzcyI6eyJyb2xlcyI6WyJvZmZsaW5l
X2FjY2VzcyIsInVtYV9hdXRob3JpemF0aW9uIl19LCJyZXNvdXJjZV9hY2Nlc3MiOnsib3Blb
mFwaS1sbXMiOnsicm9sZXMiOlsiZWRpdG9yIiwidmlld2VyIl19LCJhY2NvdW50Ijp7InJvbG
VzIjpbIm1hbmFnZS1hY2NvdW50IiwibWFuYWdlLWFjY291bnQtbGlua3MiLCJ2aWV3LXByb2Z
pbGUiXX19LCJzY29wZSI6ImVtYWlsIHByb2ZpbGUiLCJlbWFpbF92ZXJpZmllZCI6ZmFsc2Us
InByZWZlcnJlZF91c2VybmFtZSI6ImRmYS1sbXMtdGVzdC11c2VyIn0.c7sM3iwe7gc3xZCal
YoBW34H5X8AqJ7T6niCRb8kudOWrC3dB_XiHa_tvOwWvgcPe-
h2mcfHthOKVa0fqg7ZK0U8AaDkHIVEjfzKGPfKB0Wy0AV2jHmr3TsRBQCMaHADcMOLsKG3zoH
F8L9hxeZl0ou3hItXgCLK19Pgg3T2aR7l1Pq-
GsPVyqHBTC4mKjrzVxQUvcqXzMuSE6fwgWFHUZM50sjpGyWqF4AIfmmtU-
C_lXR5zTl6LJx3qKPl6srsplDvkOTa-
jbF_ROzpAzU2xaEjfz61mVddn6yzdosHIDOz056wI9AD1Hbr0pwAlMqq78M1DKYg5pa94Y4Vy
1iVg
```

4. Decode the JWT

Listing 9. header.json

```
{
  "alg": "RS256",
  "typ": "JWT",
  "kid": "hYLMw9UVAuLzdaSpR6bDm4rJd4MDNvDyuupXa6VX7pY"
}
```

Listing 10. payload.json

```json
{
  "exp": 1689070149,
  "iat": 1688983749,
  "jti": "34707663-aac8-4e1d-ba99-883a0100d516",
  "iss": "http://<ip>:<port>/auth/realms/banglalink",
  "aud": "account",
  "sub": "6e479490-5de0-4ff1-8b2e-1e62e0cb80a5",
  "typ": "Bearer",
  "azp": "openapi-lms",
  "session_state": "5f74c745-14ec-46a2-903c-8e8206891abe",
  "acr": "1",
  "allowed-origins": [
    "*"
  ],
  "realm_access": {
    "roles": [
      "offline_access",
      "uma_authorization"
    ]
  },
  "resource_access": {
    "openapi-lms": {
      "roles": [
        "editor",
        "viewer"
      ]
    },
    "account": {
      "roles": [
        "manage-account",
        "manage-account-links",
        "view-profile"
      ]
    }
  },
  "scope": "email profile",
  "email_verified": false,
  "preferred_username": "dfa-lms-test-user"
}
```

Appendix A: Credits

Name	Title	Version	Release	History
S M Yeaminul Islam	**Lead Engineer**	1.0	19-05-2023	Initial Version
S M Yeaminul Islam	**Lead Engineer**	1.1	21-06-2023	Send OTP SMS API has slightly modified parameter list
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