



banglalink

THE OPENAPI

Banglalink Digital

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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)

```
{
  "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_Authorization_Documentation

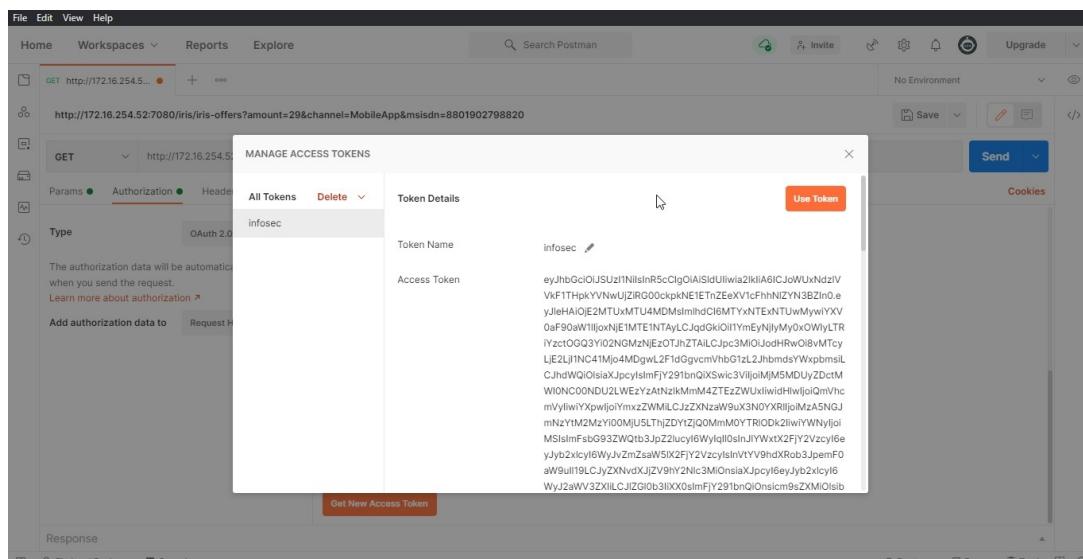
3.2. Obtain access token using Postman

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

1. Configure Postman

Configuration Name	Value
Token Name	<token_name> i.e. <i>customer-information_token</i>
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:



The screenshot shows the Postman interface with a modal dialog titled "MANAGE ACCESS TOKENS". The "Token Details" tab is selected. The "Token Name" field contains "infosec" and the "Access Token" field displays a long, complex string of characters representing the generated token. The token string starts with "eyJhbGciOiJSUzI1Ni...".

```

eyJhbGciOiJSUzI1Ni...l5cClgOiaSIidUiwia2ikIA6ICJoWUxNdzIVkF1THpkYVnwUjZiR0G0ckpkNEiTzExVtcfhNzYn3BZi0e...
yJleHAiOjE2MTUxMTU4MDMsImhdI06MTYxNTEKnNTMy0OWwiYXX...
0af90aWflljOnNE1MTEnTAYLCJqdGKOUlTyNlEyNljlyMy0OWhjLTr...
ivzc0tQG3Yj02NGMzNjezoJhJzTAICjpc3M0IjodhRwOl8vmtCf...
yIE2LjINC41Mj04MDgwL2F1dGvcmvhGtL2JhbmdsWxpbdmIL...
CJhdWQolsaxJpcyslmFjY291bnQixSwE3VlijmMsMD0UzDctM...
WIONCOONDU21LWEzYzANzikkMm42TEzZWUlxividHwljlQmVnV...
mVlviwYXpwlj0YmxzZWMLCJzXNzaw9uX3NOYXRlijm2ASNGJ...
mNzYm2MzYi00MjUSLTnjzDyfZjQ0MmM0YTRODk2lwYYWNyljoi...
MSlslmfbs093ZiWt3jB2Zlucy6WyqldosnJtYV9hdxRob3Jpemf0...
aW9ull19CjCjZKNvdxJzJzV9iY2Nlc3M0nsiaXpcy6eyb2xlyf6...
WyJ2aWV3ZXiLCJlZGlob3lIXX0slmFjY291bnQlOnsicm9sZXMiOls...

```

This information is critical to company goal/projection. Unauthorized disclosure could directly or indirectly cause adverse impact on the Bangalink, its employees, or subscriber.

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

```
eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldeIiwia2lkIiA6ICJowUxNdz1VVkF1THpkYVNwUjZiRG00ckpkNE1ETnZEeXV1cFhhN1ZYN3BZIn0.eyJleHAiOiJE2ODkwNzAxNDksImIhdCI6MTY4ODk4Mzc0OSwianRpIjoimzQ3MDc2NjMtYWFjOC00ZTFkLWJhOTktODgzYTAxMDBkNTE2IiwiaxNzIjoiHR0cDovLzE3Mi4xNi44LjEzMj04MDgwL2F1dGgvcmVhbG1zL2JhbmdsYXpbmsiLCJhdWQiOiJhY2NvdW50IiwiC3ViIjoiNmU0Nzk0OTAtNWR1MC00ZmYxLThiMmUtMWU2MmUwY2I4MGE1IiwidHlwIjoiQmVhcmVyIwiYXpwIjoib3B1bmFwaS1sbXMiLCJzZXNzaW9uX3N0YXR1IjoiNWY3NGM3NDUtMTR1Yy00NmEyLTkwM2MtOGU4MjA2ODkxYWJ1IiwiYWNyIjoiMSIsImFsbG93ZWQtb3JpZ2lucyI6WyIqI10sInJ1YWxtX2FjY2VzcyI6eyJyb2x1cyI6WyJvZmZsaW51X2FjY2VzcyIsInVtYV9hdXR0b3JpemF0aW9uI119LCJyZXNvdXJjZV9hY2N1c3MiOnsib3BlbmFwaS1sbXMiOnsicm9sZXMiOlsizWRpdG9yIiwidm1ld2ViI119LCJhY2NvdW50Ijp7InJvbGVzIjpbIm1hbmFnZS1hY2NvdW50IiwbWFuYWdlWFjY291bnQtbgua3MiLCJ2aWV3LXByb2ZpbGUIXX19LCJzY29wZSI6ImVtYWlsIHBByb2ZpbGUILCJ1bWFpbF92ZXJpZml1ZCI6ZmFsc2UsInByZWZlcnJ1ZF91c2VybmrftZSI6ImRmYS1sbXMtdGVzdC11c2VyIn0.c7sM3iwe7gc3xZCalYoBW34H5X8AqJ7T6niCRb8kudOWrC3dB_XiHa_tvOwWvgcPe-h2mcfHthOKVa0fqg7ZK0U8AaDkHIVEjfzKGPFKB0Wy0AV2jHmr3TsRBQCMaHADcMOLsKG3zoHF8L9hxeZ10ou3hItXgCLK19Pgg3T2aR711Pq-GsPVyqHBTC4mKjrzVxQUvcqXzMuSE6fwgWFHUZM50sjpGyWqF4AIffmmmtU-C_1XR5zt16LJx3qKP16srsp1DvkOTa-jbF_ROzpAzU2xaEjfz61mVddn6yzdosHIDOz056wI9AD1Hbr0pwAlMqq78M1DKYg5pa94Y4Vv1ivg
```

4. Decode the JWT

Listing 9. header.json

```
{  
  "alg": "RS256",  
  "typ": "JWT",  
  "kid": "hYLMw9UVAAuLzdaSpR6bDm4rJd4MDNvDyuupXa6VX7pY"  
}
```

Listing 10. payload.json

```
{  
    "exp": 1689070149,  
    "iat": 168983749,  
    "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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