**SALES TRACKING SOLUTION API DOCUMENTATION**

**Incourage Sale Tracking Solution API (1.0.0)**

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| --- | --- | --- |
| **VERSION** | **UPDATED** | **DOCUMENT AUTHOR** |
| 1.0.0 | 19th May 2024 | Austin Mwasi |
|  |  |  |

# INTRODUCTION

The Sale Tracking Solution API allows a third-party (Aggregator) to access and request services.

In order to make requests, your application must authenticate using an authorization token which the API will assign to you. The Authorization token (TokenID) will be valid for a period of 24hrs on successful login, thereafter, the user will be required to re-login again.

You will only be able to make requests on the services using the provided Authorization Token.

Generally, we will stick to HTTP API guidelines.

* GET to retrieve resource from the API.
* POST to create new resource.
* PUT to update a resource.
* DELETE to delete a resource.

**ERROR RESPONSES AND DESCRIPTION**

|  |  |
| --- | --- |
| **Error Code/Status Code** | **Descriptions/Possibilities** |
| 404 | * Unauthorized Access |
| 405 | * Invalid Token |
| 501 | * User Not Registered |
| 200 | * Success Response |
| 11 | * Invalid login credentials Username/Password |
| 10 | * Parameters errors |
| 12 | * Failed Event |
| 13 | * User Blocked |
| 14 | * User Not Approved |
| 15 | * Invalid User |
| 17 | * No Active User |
| 18 | * Invalid Product |
| 19 | * Invalid Request |

# SECURITY

User LOGIN

**Description**: User login.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |
| --- | --- |
| **POST/ User/Login** | **Parameters:** |
| **Mandatory** | UserName |
|  | Password |

**Example**

POST/ Aggregator/Login

UserName="ENSIBUUKO\_TECH"

Password="pass@2021"

**Response**

Returns a JSON object response string in both success and fail.

On S**uccessful** login

{

"StatusCode": 200

"UserName": "ENSIBUUKO\_TECH",

"TokenID": "ec9a767e5e7835ad4efbbe64b6e683a5",

"TokenExpiryDate": "2021-07-07 11:46:00"

}

On **Failure**

{

"StatusCode": 11,

"Message": "Invalid Username/Password"

}

AGGREGATOR CHANGE PASSWORD

**Description:** This API will allow the aggregator change password on a successful login.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Aggregator/ChangePassword** | **Header** | **Parameters** |
|  | TokenID | OldPassword |
|  |  | Password |
|  |  | ConfirmPassword |
|  |  | UserName |

**Example:**

Note the credentials below are the new login credentials to be used.

POST/ Aggregator/ChangePassword

OldPassword =" Ens13uk00"

Password = "pass@2021"

ConfirmPassword = " pass@2021"

UserName = "ENSIBUUKO\_TECH"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Password Changed Successfully"

}

CUSTOMER VERIFICATION

**Description:** Checks whether the customer has been registered for M-banking Service by the Institution.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Customer/Verify** | **Header** | **Parameters** |
|  | TokenID | Mobile |

**Example**

POST/Customer/Verify

Mobile = "0701234567"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Valid Customer",

"Mobile": "0701234567",

"NationalID": "",

"Name": "Ssamula Leoarnard Billy”

}

On **Fail**

{

"StatusCode": 15,

"Message": "Invalid Member"

}

CUSTOMER USSD REGISTRATION

**Description:** Use this to notify the Institution that the customer has been successfully registered by Aggregator for USSD Service.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Customer/Registration** | **Header** | **Parameters** |
|  | TokenID | Mobile |

**Example**

POST/Customer/Registration

Mobile = "0701234567"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Activated successfully”

}

If **Customer is already registered and Active USSD service user**

{

"StatusCode": 12,

"Message": "Customer Exists"

}

CUSTOMER ACCOUNT

**Description:** Use this API to populate customer Account on ussd

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Customer/Account** | **Header** | **Parameters** |
|  | TokenID | Mobile |

**Example**

POST/Customer/Account

Mobile = "0701234567"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Account",

"Mobile": null,

"Account": "10103”

}

The Account in the response above is the account the customer has been registered for Mbanking. Refer below the service codes representations.

* **10101: Ordinary Savings**

CUSTOMER BALANCE

**Description:** This is for requesting customer Account Balance.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Customer/CheckBalance** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |

**ServiceCodes:**

* **10101: Ordinary Savings**

**Example: For Ordinary Savings**

**Account**

POST/Customer/CheckBalance

Mobile = "0782314351"

ServiceCode="10101"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Balance Successful"

}

CUSTOMER STATEMENT

**Description:** This is for requesting customer Account Statement. The statement picks the last 5 transactions.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/Customer/Statement** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |

**ServiceCodes:**

* **10101: Ordinary Savings**

**Example: For Ordinary Savings**

POST/Customer/Statement

Mobile = "0782314351"

ServiceCode= "10101"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Statement Successful"

}

# Transactions

Please note that before you carry out any of your background operations for money transfers, you must first validate the customer using the API. This is to avoid the likely reasons below:

* A customer mistakenly depositing in a Product that he has not registered for.
* The customer a/c could be Inactive/Blocked
* The customer`s a/c could be dormant etc.
* …And more causes that may arise during test/piloting phase.

CUSTOMER VALIDATION

**Description:** This is for customer Validation.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Customer/CustomerValidation** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |

**ServiceCodes:**

* **10101: Ordinary Savings**

**Example: For Ordinary Savings**

POST/Customer/CustomerValidation

Mobile = "0782314351"

ServiceCode= "10101"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Valid Customer",

}

Cont…

Once you get success, you can go ahead and carry out you background operations.

However, if you get Failed, Process, the error message you’re getting from the API and consume the Deposit API given later on this document in the format example given below. E.g.:

|  |  |  |
| --- | --- | --- |
| **POST/ Transactions/Deposit** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |
|  |  | Amount |
|  |  | RefNo |
|  |  | StatusCode |
|  |  | Message |
|  |  | TrxID |

POST/Transaction/Deposit

Mobile = "0782314351"

ServiceCode= "10101"

Amount= "15000"

RefNo = "1234" <Provide with us your ref no. for the said failed request>

StatusCode = 202

Message = "Invalid Member" <The Error Message the API gave you>

TrxID = "875876" <Unique ID>

**NB:** You shall reuse the same for all the services that involve money transfer.

DEPOSIT

**Description:** This is for Depositing funds.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Transactions/Deposit** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |
|  |  | Amount |
|  |  | RefNo |
|  |  | StatusCode |
|  |  | Message |
|  |  | TrxID |

**ServiceCodes:**

* **10101: Ordinary Savings**

**Example: For Ordinary Savings** POST/Transaction/Deposit

TrxID = "564568567" <Should be a unique code for every Transaction>

Mobile = "0782314351"

ServiceCode= "10101"

Amount= "15000"

RefNo = "1234" <Reference provided by the mobile money transfer entity>

StatusCode = 200

Message = "Deposit Success"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Deposit Success",

}

WITHDRAWAL

**Description:** This is for funds withdrawal.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Transactions/Withdraw** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | ServiceCode |
|  |  | Amount |
|  |  | TrxID |

**ServiceCodes:**

* **10101: Ordinary Savings**

**Example: For Ordinary Savings**

POST/Transaction/Withdraw

TrxID="2234786576"

Mobile ="0782314351"

ServiceCode="10101"

Amount="5000"

**Response**

On **Success**

{

"StatusCode": 200,

"Message": "Withdrawal Successful",

"Mobile": "0701239380",

"Amount": 5000.00

}

WITHDRAWAL STATUS

**Description:** The aggregator will use this API to notify us of the status of the Withdrawal Transaction whether it was successful or Reversed. Once they consume this API, then an alert sms will be sent to the customer with the narration provided by the aggregator.

**Content-Type**: application/json; charset=utf-8

**Accept**: application/json

**Authentication**: Required

**Request**

|  |  |  |
| --- | --- | --- |
| **POST/ Transactions/WithdrawalStatus** | **Header** | **Parameters** |
|  | TokenID | Mobile |
|  |  | Amount |
|  |  | RefNo |
|  |  | Status |
|  |  | Message |
|  |  | Narration |
|  |  | TrxID |

1. **Transaction Success**

POST/Transaction/WithdrawalStatus

Mobile = "0782314351"

Amount= "5000"

RefNo = "1234" <Provided during withdraw >

StatusCode = 200

Message = "Withdrawal Successful"

Narration = "Transaction with Reference No MREJ56475 was successful"

TrxID = "78676858" <Pass the TrxID you had provided initially for withdrawal request>

**Response**

Returns a JSON object response string in both successes.

On S**uccessful**

{

"StatusCode": 200

"Message": "Transaction Completed"

}

1. **Transaction Reversal**

POST/Transaction/WithdrawalStatus

Mobile = "0782314351"

Amount= "15000"

RefNo = "1234" <Provided during withdraw/Bill payment/Other payments>

StatusCode = 201

Message = "Withdrawal Failed"

Narration = "Transaction with Reference No MREJ56475 was reversed"

TrxID = "78676858" <Pass the TrxID you had provided initially for withdrawal request>

Returns a JSON object response string in both successes.

On S**uccessful**

{

"StatusCode": 200

"Message": "Reversal Successful"

}

On **Fail**

{

"Status": 12

"Message": "Reversal Error"

}

**Narration:** The aggregator will provide the narration of the transaction and attach their reference no.