MOBILE CONTENT LTD

DOCUMENT INFORMATION

Document Author:	Lordgreat – Adri Emmanuel
Document Owner:	Mobile Content Ltd
Date:	2021/02/19

DESIGN LEAD SIGN-OFF

Name:	Ekow DesBordes		
Role:	Head of IT Department		
Approved:		**Date:**	

AIRTEL TIGO GET MOMO TRANSACTION DETAILS API

SERVICE OVERVIEW

GetPurchaseTransDetails is used by the consuming application to get the debit or credit transaction details (including the status) from the MW DB. Consuming application needs to pass the valid search criteria to get the transaction details. This service will retrieve the details from the MW DB based on the input. The service will return the success response. In case of any error in the flow, a fault would be returned in the response.

DEFINITIONS AND ABBREVIATIONS

SMS	Short Message Service
USSD	Unstructured Supplementary Service Data
MSISDN	Mobile Station International Subscriber Directory Number
SOA	Service Oriented Architecture.
API	Application Program Interface
MCC	Mobile Content.Com
OSB	Oracle Service Bus

API USAGE AND REQUIRED PARAMETERS

To access and use the API successfully, few parameters must be provided.

PARAMETERS	MANDATORY LEVEL	DESCRIPTION
ApiType	Mandatory	Identify the type of transaction being required for {purchase/payment} only
PaymentReference	Mandatory	Correlation ID of the required purchase or payment transaction.
AuthorizationCode	Mandatory	An access code for mcc users to be included in each request, this is a database define code. Details will be shared by head of the department.
Network	Mandatory	The value required is AIRTEL-TIGO-GH

Ei

{

   "ApiType":"purchase",

   "PaymentReference":"239843940344343943434",
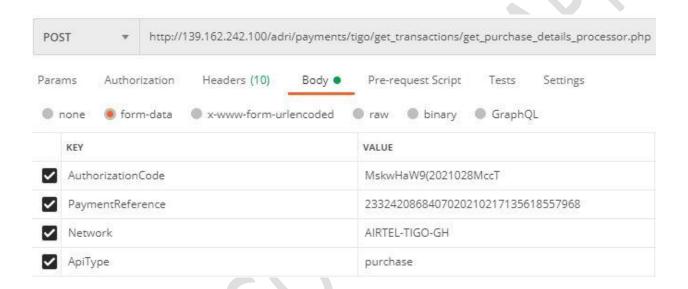
   "AuthorizationCode":"Iknskdnsowejnjsdhije",

   "Network":"AIRTEL-TIGO-GH"

}

A **POST** request with the above parameters should be sent to the MOMO Credit url/endpoint below.

http://139.162.242.100/adri/payments/tigo/get_transactions/get_purchase_details_processor.php

Example of postman request:

POST ▼	http://139.162.242.100/adri/payments/tigo/get_transactions/get_purchase_details_processor.php

Params   Authorization   Headers (10)   Body ●   Pre-request Script   Tests   Settings

○ none   ● form-data   ○ x-www-form-urlencoded   ○ raw   ○ binary   ○ GraphQL

	KEY	VALUE
☑	AuthorizationCode	MskwHaW9(2021028MccT
☑	PaymentReference	233242086840702021021?135618557968
☑	Network	AIRTEL-TIGO-GH
☑	ApiType	purchase

The consuming middleware would authenticate the calling application against the unwanted request from other sources.

The API will first check for the authorization for the incoming request and if all is good, it then process the request. Should the user not authorized to access the API or request coming from a wrong guest, the API will throw the below json response:

```
{
        "Success":"Failed",

        "Data":

                {

                        "ResponseCode":"2001",

                        "Description":"Non authorized request"

                }

}
```

Example of response from postman when authorization failed:

Should the request be processed successfully, a json response will be sent to the calling application to acknowledge the request as shown below for purchase (debit) and payment (credit):

FOR PAYMENT

```
{
        "Success":true,

        "ResponseCode":"getpurchasetransdetails-1162-0000-S",

                "Data":

                {

                        "Network": "AIRTEL-TIGO-GH",

                        "CorrelationId":"2332442623948812021021522302228548107",

                        "TransactionId":"RhQ4GCs1613428222d181324d034c3b457d77c9b7cb82146d",

                        "ExternalTransactionId":"a3cc1d5c-fb7d-4657-8b7e-694d569c22fc",
```

                    "Amount":"0.50",

                    "ItemName":'payment',

                    "Status":"OK",

                    "PayerWallet":"233277231999",

                    "PayeeWallet":"233273593525",

                    "Description":"The request has been processed successfully.",

                    "UtibaTransactionId":"BM210215.1953.C00818",

                    "SoaTransactionId":"a74d3a42-2cb1-43b0-a135-807bcc52412e",

                    "PaymentReference":"818664819",

                    "PurchaseStatus":"Completed",

                    "AdditionalInfo":null,

                    "TransactionDate":"2021-02-15T19:54:24"

            }

}

FOR PURCHASE

{

   "Success": true,

   "ResponseCode": "getpurchasetransdetails-1162-0000-S",

   "Data": {

      "Network": "AIRTEL-TIGO-GH",

      "CorrelationId": "233244749322416202102182128283904469",

      "TransactionId": "iUFpCMj1613683708ab4de5f72f1a5489dfd446b5ec1e2af1",

      "ExternalTransactionId": "3a60e830-8845-4ec3-ac2f-a28bd17e80ae",

      "Amount": "0.30",

      "ItemName": "Book",

      "Status": "OK",

      "PayerWallet": "233273593525",

      "PayeeWallet": "233277231999",

      "Description": "The request has been processed successfully.",

```
        "UtibaTransactionId": "MM210217.1356.D04781",

        "SoaTransactionId": "5434cf4f-b4dc-47e8-8a3d-b4b5cc11ce83",

        "PaymentReference": "2332420868407020210217135618557968 0",

        "PurchaseStatus": "Completed",

        "AdditionalInfo": null,

        "TransactionDate": "2021-02-17T13:56:20.65"

    }

}
```

Example of success response from postman is request was initiated successfully:

```
 2        "Success": true,
 3        "ResponseCode": "getpurchasetransdetails-1162-0000-S",
 4        "Data": {
 5            "CorrelationId": "233244749322416202102182128283904469",
 6            "TransactionId": "iUFpCMj1613683708ab4de5f72f1a5489dfd446b5ec1e2af1",
 7            "ExternalTransactionId": "3a60e830-8845-4ec3-ac2f-a28bd17e80ae",
 8            "Amount": "0.30",
 9            "ItemName": "Test",
10            "Status": "OK",
11            "PayerWallet": "233273593525",
12            "PayeeWallet": "233277231999",
13            "Description": "The request has been processed successfully.",
14            "UtibaTransactionId": "MM210217.1356.D04781",
15            "SoaTransactionId": "5434cf4f-b4dc-47e8-8a3d-b4b5cc11ce83",
16            "PaymentReference": "2332420868407020210217135618557968 0",
17            "PurchaseStatus": "Completed",
18            "AdditionalInfo": null,
19            "TransactionDate": "2021-02-17T13:56:20.65"
```

Sample error response from get transaction details request:

```
{

    "Success": true,

    "ResponseCode": "getpurchasetransdetails-1162-4110-V",
```

```json
  "Data": {

    "Network": "AIRTEL-TIGO-GH",

    "CorrelationId": "233244384613600202102182147162376052",

    "TransactionId": "WHxrFTq16136848367b5af0b0a07642092b81c2362e52b818",

    "ExternalTransactionId": "8dc1a7de-e2a6-4777-be19-2df2ba4abfc0",

    "Amount": null,

    "ItemName": null,

    "Status": "ERROR",

    "PayerWallet": null,

    "PayeeWallet": null,

    "Description": "Invalid paymentreference/authorizationcode passed in the request.",

    "UtibaTransactionId": null,

    "SoaTransactionId": null,

    "PaymentReference": null,

    "PurchaseStatus": null,

    "AdditionalInfo": null,

    "TransactionDate": null
  }
}
```

SUCCESS STATUS CODES

On successful operation execution the API will return the success code below.

Code	Description
getpurchasetransdetails-1162-0000-S	The request has been processed successfully

ERROR CODES

This operation could return errors or failures in the process. The error codes and short descriptions are listed below.

Error Code	Error Category	Error Description
getpurchasetransdetails-1162- 4501-V	OSB Validation Error	Invalid Request. Please check the input and resubmit.

getpurchasetransdetails-1162-4507-V	When PaymentReference passed is null/empty in the request.	PaymentReference passed is null/empty in the request
getpurchasetransdetails-1162- 2501-F	When backends are down	One or more back end services are not available at the moment. Please try again later.
getpurchasetransdetails-1162- 2502-F	OSB Timeout and backend timeout Error	Service call timed out. Please try again later.
getpurchasetransdetails-1162- 3603-E	OSB service error	Internal service error has occurred.
getpurchasetransdetails-1162- 3999-E	When the reason for failure is not defined/known in the service.	Unknown/Uncaught error has occurred.
getpurchasetransdetails-1162- 4502-V	When an invalid ISD (Country) code is sent in the MSISDN.	Invalid ISD code passed in the MSISDN
getpurchasetransdetails-1162- 4110-V	When Invalid paymentreference/correlation Id is passed in the request.	Invalid paymentreference/authorizationco de passed in the request.
getpurchasetransdetails-1162-4107-V	Invalid apiType passed in the request, it should be purchase/payment.	Invalid apiType passed in the request, it should be purchase/payment.

GENERAL RESPONSE STRUCTURE AND DESCRIPTION

Element Name	Element Type	Description
ResponseCode	String	Code that is to identify the success or fail event in the transaction
CorrelationId	Integer	Unique identifier of the transaction by the calling application.
TransactionId	String	Transaction id is generated by the calling application to tigo.
ExternalTransactionId	String	Middleware Unique transaction Id generated by the API
Amount	Double	An amount to be deducted for the service/product
Status	String	State of the transaction Enumeration values ➢ OK ➢ ERROR
Description	String	Technical and brief description of the error/success
UtibaTransactionId	String	Unique ID of the payment transaction from the MFS platform.
PaymentReference	Integer	This will the unique payment reference sent by the consuming application
AdditionalInfo	String	This element is used in case of backend error to return any additional information about the error. In this service, backend service name/response message would be returned in this element.

Sample success response description

Element Name	Description
UtibaTransactionId	TransactionId from the Payment Platform (Comviva Mobiquity)
CorrelationId	The unique paymentreference passed in the payment request.
Status	OK
ResponseCode	payments-2005-0000-S
Description	The request has been processed successfully.
Amount	The amount of the Item/Service provided in the request.
PaymentReference	Payment Reference ID for the purchase/payment transaction for which details are being requested.
ExternalTransactionId	Unique id (SoaTransactionId) generated from tigo payment platform that previously came with the acknowledged response to the user's request.
AdditionalInfo	This element is used in case of backend error to return any additional information about the error. In this service, backend service name/response message would be returned in this element.
PayerWallet	Subscriber MSISDN. Payer wallet.
PayeeWallet	Subscriber/Merchant MSISDN who initiated the purchase/payment request. Payee wallet
Status	Status of the requested transaction, i.e: Reversed Expired Initiated Pending Completed Declined
TransactionDate	Purchase/Payment transaction date.