



SOA SERVICE SPECIFICATION

GetPurchaseTransDetails_2_0

Service Id: 1162

Version 1.0

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1 BUSINESS CONTEXT

GetPurchaseTransDetails is used by the consuming application to get the Purchase or Payment transaction details (including the status) from the MW DB. Consuming application needs to pass the valid search criteria to get the transaction details.

Definitions and abbreviations

Term	Definition
OSB	Oracle Service Bus
OWSM	Oracle Web Services Manager
MSISDN	Mobile Station International Subscriber Directory Number
1..1	Mandatory element
0..1	Optional element

2 SERVICE OVERVIEW

GetPurchaseTransDetails operation is used to get the Purchase or Payment 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.

Namespaces

Namespace URI	Prefix
http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1	gpt1
http://www.w3.org/2001/Schema	xsd
http://xmlns.tigo.com/RequestHeader/V3	hd1
http://xmlns.tigo.com/GetPurchaseTransDetailsResponse/V1	gpt2
http://xmlns.tigo.com/ResponseHeader/V3	hd2
http://xmlns.tigo.com/Service/GetPurchaseTransDetails/V2	gpt
http://xmlns.tigo.com/GetPurchaseTransDetailsFault/V1	gptf
http://xmlns.tigo.com/ParameterType/V2	Par
http://xmlns.tigo.com/CoreData/V1	Cor

2.1 GETPURCHASETRANSCDETAILS

The service GetPurchaseTransDetails_2_0 is used by the consuming applications to get the Purchase or Payment transaction details from the MW DB. 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.

2.1.1 INPUT MESSAGE: GETPURCHASETRANSDetailsREQUEST

Element Name	Element Type	Occurrence	Description
GetPurchaseTransDetailsRequestt	gpt1: GetPurchaseTransDetailsRequest	1..1	Details of the Purchase transaction

2.1.2 OUTPUT MESSAGE: GETPURCHASETRANSDetailsRESPONSE

Element Name	Element Type	Occurrence	Description
GetPurchaseTransDetailsResponse	gpt2: GetPurchaseTransDetailsResponse	1..1	Response of the service holding the purchase transaction details.

2.1.3 REFERENCED FAULTS

Element Name	Element Type	Occurrence	Description
GetPurchaseTransDetailsFault	rtf: GetPurchaseTransDetailsFault	NA	Back-end or service fault wrapped into SOAP fault

2.1.4 MESSAGE/DATA SECURITY

SSL/TLS Security and Consumer authentication will be used to ensure service security.

2.1.5 SERVICE SECURITY

The Consuming Applications must authenticate against the OSB layer using OWSM-Security by providing their username and password. The password is in plain text format. The username and password are issued by the Service Factory team to the consuming application.

The authentication credentials (OWSM - Security username and password) must be stored in a secure manner and encrypted whilst stored on the consuming application platform.

Username and password has to be sent as part of SOAP Header while invoking this service.

The SOATransactionID sent in the response from Middleware has to be saved for future tracking of the transactions

Below is a sample SOAP Header:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope">
  <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
    <wsse:Security>
      <wsse:UsernameToken>
        <wsse:Username></wsse:Username>
        <wsse:Password></wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
    <!--request body-->
  </soapenv:Body>
</soapenv:Envelope>
```

2.1.6 SUCCESS STATUS CODES

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

2.1.7 ERROR CODES

This operation returns errors or failures in the standard SOAP format as per the xsd. The error codes and short descriptions are listed below.

Error No	Error Description	Country	Error Category
getpurchasetransdetails-1162-4501-V	Invalid Request. Please verify the request and resubmit.	GHA	OSB Validation Error
getpurchasetransdetails-1162-4502-V	Invalid ISD code passed in the MSISDN.	GHA	This error code will be returned when an invalid ISD (Country) code is sent in the MSISDN.
getpurchasetransdetails-1162-4503-V	Web service implementation is not available for this country.	GHA	This error code will be returned when the country in the request is other than GHA
getpurchasetransdetails-1162-4506-V	Invalid consumerId passed in the request.	GHA	Error when consumerID passed in the request is other than the defined values.
getpurchasetransdetails-1162-4507-V	PaymentReference passed is null/empty in the request	GHA	When PaymentReference passed is null/empty in the request.
getpurchasetransdetails-1162-2501-F	One or more back end services are not available at the moment. Please try again later.	GHA	When backend's are down
getpurchasetransdetails-1162-2502-F	Service call timed out. Please try again later.	GHA	OSB Timeout and backend timeout Error
getpurchasetransdetails-1162-2505-F	Service Authentication Failed.	GHA	OWSM Authentication Failure.
getpurchasetransdetails-1162-2506-F	Consumer is not authorized to use the service.	GHA	When a valid consumer tries to access the API for whom there is no authorization
getpurchasetransdetails-1162-3603-E	Internal service error has occurred.	GHA	OSB internal error
getpurchasetransdetails-1162-3999-E	Unknown/Uncaught error has occurred.	GHA	When the reason for failure is not defined/known in the service.
getpurchasetransdetails-1162-4110-V	Invalid paymentreference/authorizationcode passed in the request.	GHA	When Invalid paymentreference/authorizationcode is passed in the request.

getpurchasetransdetails-1162-4511-V	Username cannot be passed in the request	GHA	When Username is passed in the request instead of MSISDN (Source Wallet)
getpurchasetransdetails-1162-4512-V	Invalid Merchant specific consumerID passed in the request	GHA	When the consumerID passed in the request is valid but not for the calling Merchant.
getpurchasetransdetails-1162-4513-V	Invalid Merchant specific AuthorizationCode passed in the request	GHA	When the AuthorizationCode/Merchant MSISN passed in the request is not valid for the calling Merchant.
getpurchasetransdetails-1162-4107-V	Invalid apiType passed in the request, it should be purchase/payment	GHA	Invalid apiType passed in the request, it should be purchase/payment

2.1.8 SAMPLE MESSAGES

Sample request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v1="http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1"
xmlns:v3="http://xmlns.tigo.com/RequestHeader/V3"
xmlns:v2="http://xmlns.tigo.com/ParameterType/V2"
xmlns:cor="http://soa.mic.co.af/coredata_1">
```

```
  <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
```

```
    <cor:debugFlag>true</cor:debugFlag>
```

```
    <wsse:Security>
```

```
      <wsse:UsernameToken>
```

```
        <wsse:Username>test_mw_osb</wsse:Username>
```

```
        <wsse:Password>tigo1234</wsse:Password>
```

```
      </wsse:UsernameToken>
```

```
    </wsse:Security>
```

```
</soapenv:Header>
```

```
<soapenv:Body>
```

```
  <v1:GetPurchaseTransDetailsRequest>
```

```
    <v3:RequestHeader>
```

```
      <v3:GeneralConsumerInformation>
```

```
        <v3:consumerID>MWTEST</v3:consumerID>
```

```
        <!--Optional:-->
```

```
        <v3:transactionID>122</v3:transactionID>
```

```
        <v3:country>GHA</v3:country>
```

```
        <v3:correlationID>567</v3:correlationID>
```

```
      </v3:GeneralConsumerInformation>
```

```
    </v3:RequestHeader>
```

```
  <v1:requestBody>
```

```
<v1:paymentReference>1299855</v1:paymentReference>
<v1:TransactionType>payment</v1:TransactionType>
<v1:AuthorizationCode>123456sdfgh@</v1:AuthorizationCode>
</v1:requestBody>
</v1:GetPurchaseTransDetailsRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Sample response:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header xmlns:wss="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:v1="http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1"
xmlns:cor="http://soa.mic.co.af/coredata_1"
xmlns:v3="http://xmlns.tigo.com/RequestHeader/V3"
xmlns:v2="http://xmlns.tigo.com/ParameterType/V2">
    <cor:SOATransactionID>e46e8a7d-37df-48ea-a722-
d541837d3489</cor:SOATransactionID>
  </soapenv:Header>
  <soapenv:Body
xmlns:v1="http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1"
xmlns:cor="http://soa.mic.co.af/coredata_1"
xmlns:v3="http://xmlns.tigo.com/RequestHeader/V3"
xmlns:v2="http://xmlns.tigo.com/ParameterType/V2">
    <v11:GetPurchaseTransDetailsResponse
xmlns:v11="http://xmlns.tigo.com/GetPurchaseTransDetailsResponse/V1">
      <v31:ResponseHeader
xmlns:v31="http://xmlns.tigo.com/ResponseHeader/V3">
        <v31:GeneralResponse>
          <v31:correlationID>567</v31:correlationID>
          <v31:status>OK</v31:status>
          <v31:code>getpurchasetransdetails-1162-0000-S</v31:code>
          <v31:description>The request has been processed
successfully.</v31:description>
        </v31:GeneralResponse>
      </v31:ResponseHeader>
      <v11:responseBody>
        <v11:purchaseDetails>
          <v11:soaTransactionId>26cfb058-a49b-4d3c-af82-
d0a1ba0a3df4</v11:soaTransactionId>
          <v11:customerAccount>
            <v11:msisdn>233123456789</v11:msisdn>
          </v11:customerAccount>
          <v11:initiatorAccount>
```



```
        <v11:msisdn>233123456788</v11:msisdn>
    </v11:initiatorAccount>
    <v11:amount>1.0</v11:amount>
    <v11:status>Completed</v11:status>
    <v11:paymentReference>1299855</v11:paymentReference>
    <v11:transactionDate>2020-04-25T10:04:45</v11:transactionDate>

<v11:utibaTransactionId>PP200425.1005.C00008</v11:utibaTransactionId>
    </v11:purchaseDetails>
</v11:responseBody>
</v11:GetPurchaseTransDetailsResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Sample fault:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <soapenv:Header xmlns:wss="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
xmlns:v1="http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1"
xmlns:cor="http://soa.mic.co.af/coredata_1"
xmlns:v3="http://xmlns.tigo.com/RequestHeader/V3"
xmlns:v2="http://xmlns.tigo.com/ParameterType/V2">
        <cor:SOATransactionID>2233d213-67a2-4655-9c95-
af4106ea6fc9</cor:SOATransactionID>
    </soapenv:Header>
    <soapenv:Body
xmlns:v1="http://xmlns.tigo.com/GetPurchaseTransDetailsRequest/V1"
xmlns:cor="http://soa.mic.co.af/coredata_1"
xmlns:v3="http://xmlns.tigo.com/RequestHeader/V3"
xmlns:v2="http://xmlns.tigo.com/ParameterType/V2">
        <soapenv:Fault>
            <faultcode
xmlns:env="http://schemas.xmlsoap.org/soap/envelope">env:Server</faultcode>
            <faultstring>Invalid Request. Please verify the request and
resubmit.</faultstring>
            <detail>
                <ns1:GetPurchaseTransDetailsFault
xmlns:ns1="http://xmlns.tigo.com/GetPurchaseTransDetailsFault/V1"
xmlns:cmn="http://xmlns.tigo.com/ResponseHeader/V3">
                    <cmn:ResponseHeader>
                        <cmn:GeneralResponse>
                            <cmn:correlationID>123</cmn:correlationID>
                            <cmn:status>ERROR</cmn:status>
                        </cmn:GeneralResponse>
                    </cmn:ResponseHeader>
                </ns1:GetPurchaseTransDetailsFault>
            </detail>
        </soapenv:Fault>
    </soapenv:Body>
</soapenv:Envelope>
```

```

        <cmn:code>getpurchasetransdetails-1162-4501-
V</cmn:code>

        <cmn:description>Invalid Request. Please verify the
request and resubmit.</cmn:description>

        <cmn:additionalInfo>string value 'GH' is not a valid
enumeration value for CountryContentType in namespace
http://xmlns.tigo.com/RequestHeader/V3</cmn:additionalInfo>

        </cmn:GeneralResponse>
    </cmn:ResponseHeader>
</ns1:GetPurchaseTransDetailsFault>
</detail>
</soapenv:Fault>
</soapenv:Body>
</soapenv:Envelope>

```

2.2 XML SCHEMA DATA TYPE DEFINITION

2.2.1 INPUT MESSAGE: GETPURCHASETRANSDetails REQUEST STRUCTURE

Element	Type	Occurrence	Description
RequestHeader	hdr:RequestHeader	1..1	This group of data contains information about the system that needs to consume the exposed service by the OSB.
RequestBody	gpt1:requestBodyType	1..1	Identifies the request elements related to the functionality of the service

2.2.2 OUTPUT MESSAGE : GETPURCHASETRANSDetails RESPONSE STRUCTURE

Element Name	Element Type	Occurrence	Description
ResponseHeader	hdr:ResponseHeader	1..1	This group of data contains information about the status of the service call along with transaction id
ResponseBody	gpt2:responseBodyType	1..1	Identifies the response of the service to the calling application

2.2.3 REQUESTHEADER STRUCTURE

Element	Type	Occurrence	Description
GeneralConsumerInformation	Cmn:GeneralConsumerInformationType	1..1	Request header details.

2.2.4 RESPONSEHEADER STRUCTURE

Element Name	Element Type	Occurrence	Description
GeneralResponse	Cmn:GeneralResponseHeaderType	1..1	Response Header details.

2.2.5 GENERICCONSUMERINFORMATIONTYPE STRUCTURE

Element Name	Element Type	Occurrence	Description
consumerID	xsd:string	1..1	It is a unique identifier of the consumer of the service.
transactionID	xsd:string	0..1	Identifies the kind or type of transaction or operation that is taken in the consuming application.
country	cmn:CountryContentType	1..1	International country code (ISO 3166-1 alpha-3 format). Please refer to Appendix for the supported countries.
correlationID	xsd:string	1..1	Unique identifier of the transaction by the consuming application.

2.2.6 REQUESTBODYTYPE STRUCTURE

Element	Type	Occurrence	Description
customerAccount	gpt1:walletType	1..1	Customer account (Merchant Wallet) which was used for the purchase or payment transaction for which transaction details are being requested.
paymentReference	xsd:string	1..1	Payment Reference ID of the required purchase or payment transaction.
TransactionType	xsd:string	1..1	The value should be payment or purchase
AuthorizationCode	xsd:string	1..1	Unique value for each Merchant.

2.2.7 WALLETTYPE STRUCTURE

Element	Type	Occurrence	Description
msisdn	cor:msisdnType	0..1	Customer msisdn
username	xsd:string [minlength = 1]	0..1	Customer username

2.2.8 GENERALRESPONSEHEADERTYPE STRUCTURE

Element Name	Element Type	Occurrence	Description
correlationID	xsd:string	0..1	Unique identifier of the transaction by the consuming application.
status	cmn:StatusContentType	0..1	State of the transaction Enumeration values ➤ OK ➤ ERROR
code	xsd:string	0..1	Code number agreed to identify the success or fail event in the transaction
codeType	xsd:string	0..1	Identifier of the type code agreed under the catalog (It could be on a database level or confluence documentation defined).

description	xsd:string	0..1	Technical and brief description of the response code.
additionalInfo	Xsd:string	0..1	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.

2.2.9 RESPONSEBODYTYPE STRUCTURE

Element	Type	Occurrence	Description
purchaseDetails	gpt2:purchaseDetailsType	1..	Purchase/Payment transaction details
additionalResults	par:ParameterType	0..1	AdditionalResults for future use

2.2.10 PURCHASEDETAILSTYPE STRUCTURE

Element	Type	Occurrence	Description
soaTransactionId	xsd:string	1..1	Middleware Unique transaction Id generated by the API
customerAccount	gpt1:walletType	1..1	Subscriber MSISDN. Payer wallet.
initiatorAccount	gpt1:walletType	1..1	Subscriber/Merchant MSISDN who initiated the purchase/payment request. Payee wallet
amount	xsd:string	1..1	Amount for the purchase/payment transaction
itemName	xsd:string	0..1	Purchase/Payment Item Name
status	xsd:string	1..1	Status of the transaction, i.e: Reversed Expired Initiated Pending Completed Declined
webUser	xsd:string	1..1	The purchase/payment transaction initiator's Web User ID
merchantName	xsd:string	0..1	Merchant name
paymentReference	xsd:string	1..1	Payment Reference ID for the purchase/payment transaction for which details are being requested.
transactionDate	xsd:string	1..1	Purchase/Payment transaction date
utibaTransactionId	xsd:string	1..1	Mobile Financial System Transaction ID
mwCode	xsd:string	0..1	Middleware code for the transaction
mwDescription	xsd:string	0..1	Middleware description for the transaction

2.2.11 PARAMETER TYPE STRUCTURE

Element	Type	Occurrence	Description
ParameterName	xsd:string	1..1	Parameter name to be passed in the request
ParameterValue	xsd:string	1..1	Parameter value to be passed in the request

3 APPENDIX

3.1 COUNTRY CODES

Country code	Country name
SLV	El Salvador
GTM	Guatemala
HND	Honduras
BOL	Bolivia
COL	Colombia
PRY	Paraguay
TCD	Chad
COD	Democratic Republic of Congo
GHA	Ghana
MUS	Mauritius
RWA	Rwanda
GHA	Senegal
TZA	Tanzania

3.2 MSISDN FORMAT

Country name	MSISDN format	Sample
Democratic Republic of Congo	International format	243123456789
Senegal	International format	221123456789
Ghana	International format	233573579125
Tanzania	International format	255123456789