OBJECTIVE

The objective of this document is to define the message specification between the web service and third party client platforms.

SERVICE SPECIFICATION

The service implements the following specifications: SOAP Protocol with simple HTTP Basic Authentication for message security and authentication. The transport is HTTP, and message encoding is Text/XML

WEB SERVICE API

The service has only one method which enables clients to send request payloads to the core banking system. The method name is **sendTransaction.** It takes a string as input and returns a string in response. The input string must conform to XML syntax. The service also ensures that response is formatted in XML and conforms to XML syntax. The elements contained in the Request & Response payloads are defined as follows:

REQUEST MESSAGE DEFINITION

XML FIELD NAME	DESCRIPTION	MAX SIZE	LENGTH OPTION	DATA TYPE	FORMAT
PROCESSING_CODE	PROCESSING CODE	2	FIXED	NUMERIC	DEFAULTS to 51
TRAN_CRNCY_CODE	TRAN CURRENCY CODE	3	FIXED	ALPHA	
DR_ACCT_NUM	DEBIT ACCOUNT NUMBER	19	VARIABLE	ALPHA NUMERIC	
CR_ACCT_NUM	CREDIT ACCOUNT NUMBER	19	VARIABLE	ALPHA NUMERIC	
VALUE_DATE	VALUE DATE	8	VARIABLE	DATE	YYYYMMDD
TRAN_AMT	TRANSACTION AMOUNT	16	VARIABLE	NUMERIC	Decimal point is not allowed
RESERVED_FLD_1	TRANSACTION NARRATION	50	VARIABLE	APHA NUMERIC	
TERMINAL_NAME_LOC	TRANSACTION REMARKS	30	VARIABLE	ALPHA NUMERIC	
TRAN_DATE_TIME	TRANSACTION DATE AND TIME	14	VARIABLE	DATETIME	YYYYMMDDHHMMSS

FEE	THE PARENT TAG FOR EACH TRANSACTION FEE. (THE SERVICE ACCOMMODATE A MAXIMUM OF 5 FEES PER REQUEST MESSAGE)				

DR_ACCT_NO	DEBIT ACCOUNT NUMBER FOR THE INDIVIDUAL FEE	19	VARIABLE	ALPHA NUMERIC	
CR_ACCT_NO	CREDIT ACCOUNT NUMBER FOR THE INDIVIDUAL FEE	9	VARIABLE	ALPHA NUMERIC	
AMOUNT	FEE AMOUNT	16	VARIABLE	NUMERIC	
COUNTRY_CODE	REMITTER COUNTRY CODE (STANDARD ISO 3-CHARACTER ALPHA CODE)	3	VARIABLE	ALPHA NUMERIC	
STAN	AUDIT NUMBER (THIS FIELD IN COMBINATION WITH 'TRAN_DATE_TIME' UNIQUELY IDENTIFIES A TRANSACTION	12	VARIABLE	NUMERIC	
ORGN_TRAN_STAN	AUDIT NUMBER OF THE TRANSACTION TO REVERSE	12	VARIABLE	NUMERIC	
ORGN_TRAN_DATE_TIME	TRANSACTION DATE AND TIME OF TRANSACTION TO REVERSE	14	VARIABLE	DATETIME	YYYYMMDDHHMMSS

RESPONSE MESSAGE DEFINITION

XML FIELD NAME	DESCRIPTION	MAX SIZE	LENGTH OPTION	DATA TYPE	FORMAT
AVAILABLE_BALANCE	CUURENT AVAILABLE BALANCE	17	VARIABLE	NUMERIC	

LEDGER_BALANCE	CURRENT LEDGER BALANCE	17	VARIABLE	NUMERIC		
BALANCE_CURRENCY	BALANCE CURRENCY	17	VARIABLE	NUMERIC		
ACTION_CODE	RESPONSE CODE ('000' for Success; otherwise Failure)	10	VARIABLE	STRING		
STAN	SERIAL NUMBER	12	VARIABLE	NUMERIC		
TRAN_DATE_TIME	TRANSACTION DATE AND TIME	14	VARIABLE	DATETIME	YYYYMMDDHHMMSS	
COUNTRY_CODE	REMITTER COUNTRY CODE	3	VARIABLE	ALPHA NUMERIC		

API WSDL

The service descriptor language is accessible at the address below.

http://172.20.236.28:7819/cba/wbs?wsdl

SAMPLE SOAP REQUEST:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:fin="http://finaclews.org">

  <soapenv:Header/>

  <soapenv:Body>

    <fin:sendTransaction>

      <arg0>

      <![CDATA[

                 <C24TRANREQ>

                 <STAN>201510140102</STAN>

                 <TRAN_DATE_TIME>20151014014703</TRAN_DATE_TIME>

                 <TRAN_AMT>1500</TRAN_AMT>

                 <PROCESSING_CODE>51</PROCESSING_CODE>
```

```
                    <TRAN_CRNCY_CODE>NGN</TRAN_CRNCY_CODE>

                    <COUNTRY_CODE>NGA</COUNTRY_CODE>

                    <VALUE_DATE>20151014</VALUE_DATE>

                    <DR_ACCT_NUM>2018166561</DR_ACCT_NUM>

                    <CR_ACCT_NUM>1005847601</CR_ACCT_NUM>

                    <RESERVED_FLD_1>DECLARATION DES FRAIS D IMPRESSION 3 PAGES  @ 17% VAT</RESERVED_FLD_1>

                    <FEE ID='1'>

                    <DR_ACCT_NO>2018166561</DR_ACCT_NO>

                    <CR_ACCT_NO>2042604150</CR_ACCT_NO>

                    <AMOUNT>255</AMOUNT>

                    </FEE>

                    < ORGN_TRAN_STAN>201510140102</ ORGN_TRAN_STAN>

                    <ORGN_TRAN_DATE_TIME>20151014014703</ ORGN_TRAN_DATE_TIME>

                    </C24TRANREQ>

        ]]>

        </arg0>

    </fin:sendTransaction>

  </soapenv:Body>

</soapenv:Envelope>
```

SAMPLE SOAP RESPONSE:

```xml
<NS1:Envelope xmlns:NS1="http://schemas.xmlsoap.org/soap/envelope/">
<NS1:Body>
    <NS2:sendTransactionResponse xmlns:NS2="http://finaclews.org">
      <return>
          <![CDATA[
          <C24TRANRES>
          <ACTION_CODE>000</ACTION_CODE>
          <STAN>201510140102</STAN>
          <TRAN_DATE_TIME>20151014014703</TRAN_DATE_TIME>
          <AVAILABLE_BALANCE>+0000000000199344</AVAILABLE_BALANCE>
          <LEDGER_BALANCE>+0000000000199344</LEDGER_BALANCE>
          <BALANCE_CURRENCY>NGN</BALANCE_CURRENCY>
          <COUNTRY_CODE>NGA</COUNTRY_CODE>
          </C24TRANRES>]]>
          </return>
    </NS2:sendTransactionResponse>
  </NS1:Body>
</NS1:Envelope>
```