

Information Technology

PAY ARENA Settlement

System Design Specification

1. INTRODUCTION

The document was developed to document the enhancement of Pay Arena Visa process to optimize manual work effort and employ Robotic workforce.

1.1. Purpose

The RPA solution will be expected to eliminate a lot of the manual steps currently involved in the process For Pos Acquiring Dollar Visa Settlement Banking transactions. the bot first download the Pay Arena report from the File server and necessary filtering are done. Performs all necessary data manipulations. The bot goes ahead to build an upload file. If the account is balanced or not, it notifies via email with the generated report.

1.2. Overview

This document gives the overview of important parts of the system to be built and the means of communication between each component to be built. The document also gives the overview of responsibility of each component to be built and the entry and exit criteria

1.3. References

The Functional Requirement document provided by the internal audit team is one of the documents used for this integration.

1.4. Definition and Acronyms

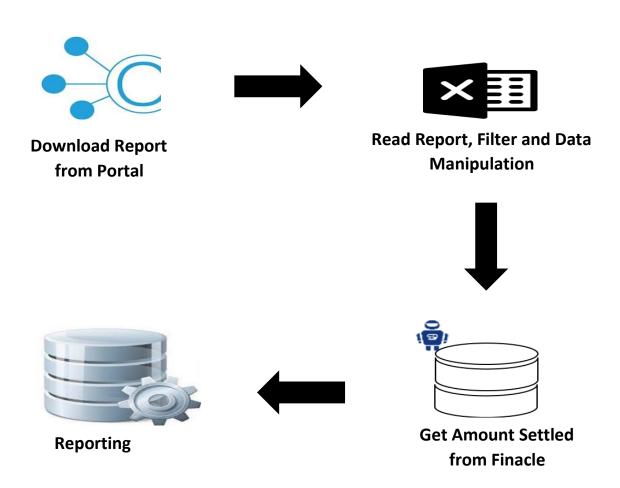
No	Abbreviation/Term	Description
1	RPA	Robotics Process Automation
2	Bot	Virtual Worker
3	SDD	Solution Design Document
4	PDD	Process Design Document
5	TBO	Transaction Banking Operation
6	FIP	First Instant Pay
7	EFT	Electronic Funds Transfer

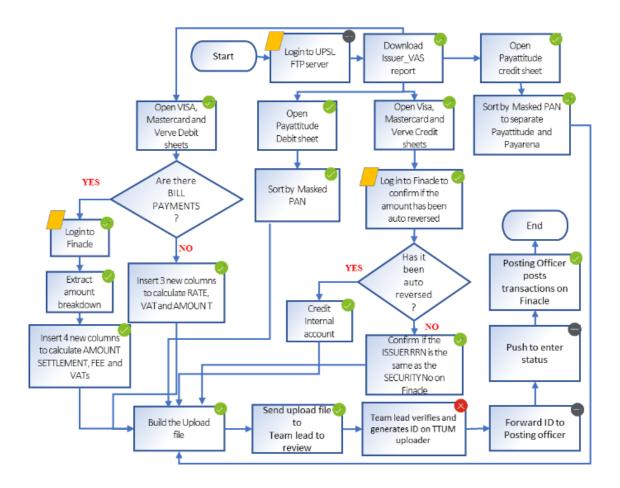
2. SYSTEM OVERVIEW

This document defines the high-level requirements for the proposed Agency Banking Visa settlement process. It will be used as the basis for the following activities:

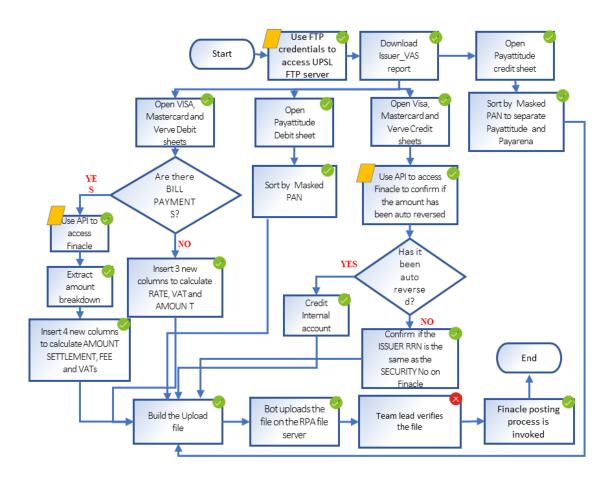
- Creating solution designs
- Defining functional requirements
- Developing test plans, test scripts, and test cases
- Determining project completion
- Assessing project success

3. SYSTEM ARCHITECTURE





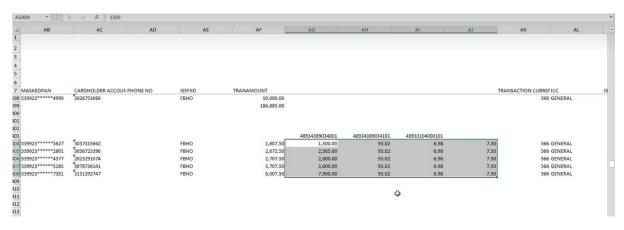
Current state for Agency Banking Process



Targeted state for Agency Banking Process

PAY ARENA

- 1. Bot opens browser and generates report
 - Bot goes to UPSL FTP server address
 - Bot uses FTP credentials to access the platform and download Issuer_VAS report from VAS Settlement folder
- 2. Process settlement template
 - For VISA, Mastercard and Verve Debit sheets, sort by TRANSACTION TYPE and TRANAMOUNT
 - If there is BILL PAYMENT transaction type,
 - i. Navigate to Finacle and
 - Use the customer's account number and transaction date to search in the customer's account for the amount breakdown (actual amount, fee and VAT) on Finacle
 - ii. Insert 4 new columns after TRANAMOUNT for ACTUAL AMOUNT SETTLED, FEE, VAT and Extra VAT (7.50)

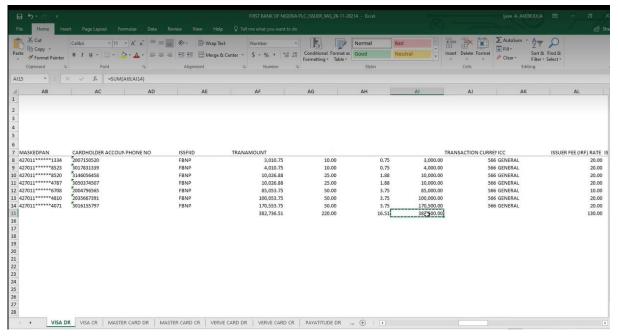


For TRANSFER and AIRTIME

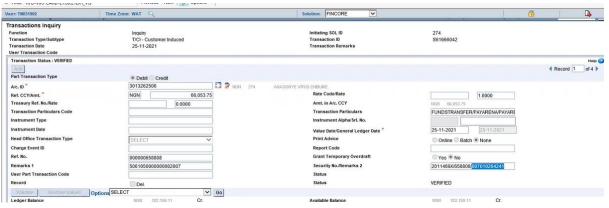
- i. Insert 3 new columns after TRANAMOUNT to calculate RATE, VAT and ACTUAL AMOUNT
- ii. To calculate RATE and VAT:

Tranamount - RATE - VAT	Rate	VAT
1-5,000	10	0.75
5,001- 50,000	25	1.88
50,001 and above	50	3.75

iii. To calculate ACTUAL AMOUNT is TRANAMOUNT minus VAT



- For VISA, Mastercard and Verve Credit sheets
 - i. Bot navigates to Finacle
 - ii. Bot uses CARDHOLDER ACCOUNT NUMBER and date to search on Finacle to confirm if the amount in the customer's account auto reversed
 - iii. If it has not been auto reversed (credit), confirm that the ISSUER RRN on the credit sheet is the same as the Security No/Remarks 2 on Finacle, then credit the customer account when building the upload file



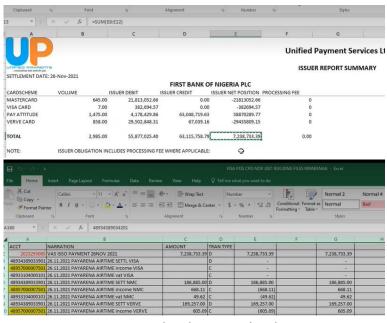
i. If it has been auto reversed, credit the internal account of the respective transaction type when building the upload file

Transaction type	Internal account to be credited
Airtime	48934389033901
Bill Payment	48934389034001
Transfer (Issuer)	48934389034201

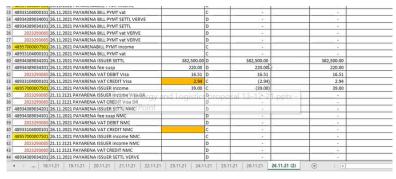
ii. To credit the internal account, build a unique narration (REV-DD.MM.YY-Remarks2)

A A	В	С	D	E	F	G	н		J= [
8 2023293085	VAS TERW PAYMENT26.NOV2121		D						
9 48957000007501	VAS TERW PAYMENT26.NOV2121		С						
0 2023293085	VAS TERW PAYMENT21.NOV2611		D						
1 48957000007501	VAS TERW PAYMENT21.NOV2611		С						
2023293085	VAS TERW PAYMENT 02Jul2121		D						
3 48957000007501	VAS TERW PAYMENT 02Jul2121		C						
2023293085	NEFT:UNIFIED PAYMENTS/VASFEEADJPAYMENT02Apr	72	С						
5 48957000007501	VAS TERW PAYMENT02Apr02		C						
6 2023293085	VAS TERW PAYMENT02Apr02		D	-		-			
7 48957000007501	VAS TERW PAYMENT02Apr02		С						
8 2023293085	VAS TERW PAYMENT02Apr02		D						
9 48957000007501	VAS TERW PAYMENT02Apr02		С						
00 48957000007501	VAS TERW PAYMENT02Apr02		С						
01 3013262506	REV-25.11.21-007010264241	66,053.75	С	(66,053.75)		66,053.75	25-11-2021 05:06:16 PM	REV-	REV-25.11.21-REV-25.11.21-007010
02 3133960476	006918081374	1,000.00	С	(1,000.00)		1,000.00	11-11-2021 12:15:02 PM	REV-	REV-11.11.21-006918081374
03			C			-		REV-	REV-00.01.00-
04	_		С					REV-	REV-00.01.00-

- For Payattitude Debit and Credit
 - i. Sort by Masked PAN to separate 901102****** from 901105********
- 3. Build the upload file
 - Copy the issuer net position from the Issuer_VAS report (cell E13) and paste it in the upload file (cell C2)



- For VISA, Mastercard and Verve Debit sheets
 - For BILL PAYMENT
 - Copy and paste the totals for ACTUAL AMOUNT, FEE, VAT and Extra VAT
 - For AIRTIME and TRANSFER
 - Copy and paste the transaction amount totals of each transaction type in the upload file
 - Copy and paste the totals for the new amount, rate, issuer fee and issuer VAT in the upload file



- For Payattitude Debit
 - Copy and paste transaction amount total for 901102*********

- Copy and paste the total ISSUER FEE and VAT
- Copy and paste Totals for ORIGINAL AMOUNT and FEE
- For VISA, Mastercard and Verve Credit
 - Copy and paste issuer fee and issuer VAT
- For Payattitude Credit,
 - Copy and paste transaction amount, fee and VAT for Payattitude masked PAN
 - Copy and paste transaction amount, fee and VAT for Payarena masked PAN
- In building the upload file:

Narration	Sheet
PAYARENA AIRTIME	MasterCard
SETT NMC	TRANAMOUNT total
PAYARENA AIRTIME	Visa TRANAMOUNT
SETT VISA	total
PAYARENA AIRTIME	Verve
SETT VERVE	TRANAMOUNT total
PAYATTITUDE SETT debit/credit	Payattitude debit/credit TRANAMOUNT total

- 4. If the upload file does not balance, send a mail to the process owner
- 5. If it balances, Bot uploads the file on the RPA file server
- 6. Team lead reviews it
- 7. Bot invokes the posting process on Finacle

4 SYSTEM SPECIFICATION

3.2.1. Network system

Network software and protocols for systems to communicate:

- a. TCP/IP
- b. HTTP
- c. HTTPS
- d. SFTP

3.2.2. Authentication Credentials

Valid authentication credentials are required to run software from third party vendors:

- a. To use application development tools
- b. To use web server, application server and database software in development, test and
- c. production mode

3. DatabaseServer

Oracle Server

4. Client Computers

Windows (Preferred) client computers

5. Production support systems

Web server computer(s) and related hardware support.

4. REQUIREMENT MATRIX

Requirement	Fulfilling component
Download Report from the FTP File Server	Bot
Send Upload file Report	Bot

5. DOCUMENT CHANGE RECORD

Date	Version	Author	Change Details
05/09/2022	1.0	Bakare Sodiq	Pos Acquiring Dollar

CREATEDBY

Name	Department/ Unit	Signature	Date
Bakare Sodiq	Developer/RPA		01/12/2022

REVIEWEDBY

Name	Department/ Unit	Signature	Date

APPROVALS

Name	Department	Designation	Signature	Date
	IT			