1. Abstract

Customer can initiate the Outward local transfer through FE and the details fed by the customer for the payment initiate must be validated before transfer

2. Background

The whole payment initiate flow consists of 2 parts: Before initiate and After Initiate. And all the transaction information are stored in ODS.

2.1 Before Initiate

Following details needs to be collected and verified before Initiate

* Current account status, balance and transfer limit must be verified through Mambu and ODS
* Beneficiary needs to be either picked-up from the existing list or created if doesn’t exist through beneficiary service.
* Purpose of transfer must be filled
* Fee and Vat must be filled
* OTP must be generated by the system and verified by the user.
* After all the verification, system calls Payment service for wio-wio or Unity Fintech client for external to initiate a Payment.

2.2 After Initiate

* Unity triggers an event to confirm the status of the external transfer.
* After receiving Acknowledge event from unit, must initiate Screening and Monitoring with Napier for that transaction.

3. Use-Case & Stakeholder

Use-Case: Customer can initiate Outward local transfer through FE

Stakeholder: Local Transfer

4. Requirements

4.1 Functional

4.1.1 The system **MUST** support Outward Local Transfer.

4.1.2 The customer **MUST** be able to verify current account status and balance.

4.1.3 The customer **MUST** be create new beneficiary or fetch from the existing beneficiary

4.1.4 The customer support agent **MUST** be able to receive OTP to authorise the transaction before initiate.

4.1.5 The customer transaction **MUST** be screened and monitored after the successful payment.

4.2 Non-Functional

4.2.1 The system **MUST** be agnostic to products, flows or users of the system.

4.2.2 The system **MUST** support 2 millions customers onboarding in one year. It is around 5500 customers per day, 91 customers per minute and 1.5 customers per second.

4.2.2 The system **MUST** follow BaaS standards.

5. Method

The section contains the implementation part of the Outward Local payment.

5.1 Analysis

**5.1.1 Scope of the initiative**

The scope of this initiative includes only outward local transfer. The systems to authenticate and authorize customers access are out of scope. The systems to store transfer data are out of scope of this initiative.

**5.1.2 Separation of concerns**

Currently during local outward payment, Neobank third-party integrations - Unity, Napier and Mambu.

All these integrations are tightly coupled with third parties, so it’s important to understand what is an underlying usage of a particular third-party system.

**Unity** provides electronic payment solutions for the Banking & Finance Sector in the Middle East

**Mambu** provides infrastructure for banks and financial service providers according to the software as a service mode

**Napier** is a system that allows to do the screening and monitoring customer based on their databases.

In general, Neobank has the following generic functionality during onboarding:

* Validating originator account status Activeness and having enough money to make a transfer
* Verify the supplied beneficiary belongs to the customer.
* Make you the payment is with the transferable limit
* Screen and monitor the transaction after the payment success.

5.2 Components

The following diagram represents the components involved in the onboarding process.

Diagram

Description automatically generated

Let’s go though every component and it’s functions one by one:

* **Customer Service** provides needed customer details to process the transaction.
* **Beneficiary Service** provides beneficiary details needed for the transactions by passing supplied beneficiary-Id
* **Payment service** is used to initiate wio-wio transactions.
* **Limit Service** provides permitted (Daily, Monthly & Per-Transaction) limit details to make sure that the transaction amount is with in that.
* **Screening service** is used to screen and monitor the transaction after posting success using Napier.

5.3 Algorithms

The diagram below shows the steps of initiate payment (copy from the service map (Initiate local transfer (https://adqfinancialservices.atlassian.net/wiki/spaces/ADQFS/pages/352847886/Local+Transfer+-+Service+Map)

6. Rollout Plan

The rollout plan is conservative. Proposed initiative is the long-term vision and it should be implemented during the year as new features are implemented.