

Overview

The chapter focuses on the description of each of the components involved in the payout process and what each component is responsible for. All mentioned components and their responsibilities are made and managed by Verestro.

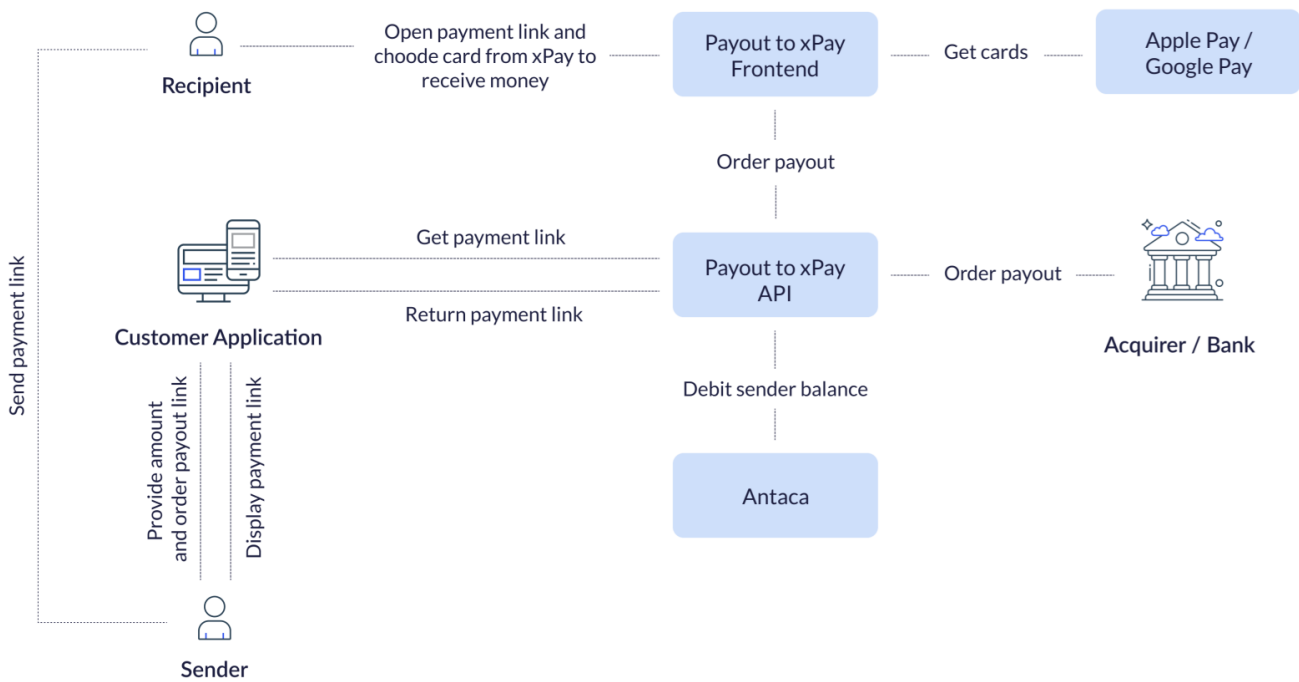
Terminology

Name	Description
Customer/Merchant	Institution which uses and integrates with Verestro products.
xPay	An external institution that holds cards in a mobile wallet - Apple Pay and Google Pay wallet.
Acquirer	An external institution that communicates with the card issuer, protects against fraud and taking responsible for executing the transaction and checking the correctness of 3D Secure authentication.
Balance	The current balance of funds for a given user stored in the Antaca service.
Card	A payment instrument issued by the issuer to a given user. You can send and receive funds using the card.
Issuer	The Bank/card issuer. It determines whether a given transaction can be performed and whether 3D Secure authentication is needed.
Payout	A method that allows you to order a transfer from your balance to provided payment card.
User	An end user, e.g. the entity to which the card was issued.
Component	An application service that is a part of the entire technical solution, for example Payout API.

Application components

This chapter is describing all components involved in the processes included in the Payout to card and xPay product. Each of the sections below describes each of the components. Internal services

are the key elements of the solution implemented on the Verestro side. Each of them has a separate responsibility in the entire Payout to card and xPay process. Below table describes every internal components in our Payout to card and xPay application. [Payout to card and xPay](#) is our internal service integrated with Google Pay and Apple Pay, thus enabling getting the card tokens from these wallets, generating pay me link allowing to order payouts and connecting with acquirer to perform ordered transfer and handling 3D Secure process.



Component	Description
Payout API	The backend component of the Payout to card and xPay application. It is responsible for opening a payment session, generating a payment link and ordering the transaction to an acquiring institution.
Payout frontend app	The frontend component of the Payout to card and xPay application. It contains a frontend view to which the recipient of the payment link is redirected. In addition, it gets recipient's card from xPay Wallet and passes it to the Payout to card and xPay API.
Antaca API	Backend component which manages balances and allows certain operations related to them. Such operations include creating a new balance, debiting and crediting a balance or deactivating a balance. This component is not part of the Payout to card and xPay application, but it is crucial to this service as the funds of the payout sender are taken from his balance in Antaca.

@startuml

skinparam ParticipantPadding 30

```
skinparam BoxPadding 30
skinparam noteFontColor #FFFFFF
skinparam noteBackgroundColor #1C1E3F
skinparam noteBorderColor #1C1E3F
skinparam noteBorderThickness 1
skinparam sequence {
ArrowColor #1C1E3F
ArrowFontColor #1C1E3F
ActorBorderColor #1C1E3F
ActorBackgroundColor #FFFFFF
ActorFontStyle bold
ParticipantBorderColor #1C1E3F
ParticipantBackgroundColor #1C1E3F
ParticipantFontColor #FFFFFF
ParticipantFontStyle bold
LifeLineBackgroundColor #1C1E3F
LifeLineBorderColor #1C1E3F
}
actor "Money Sender" as sender
participant "Customer App" as customer
participant "Payout App" as verestrobackend
participant "Google/Apple Pay" as xpay
actor "Money Recipient" as user
== Customer's part of the process ==
sender->customer: Order payout (trx data)
customer->verestrobackend: Create payment link(trxData, balancelid)
verestrobackend->verestrobackend: Check if the user has sufficient funds
customer<-verestrobackend: Return payment link
sender<-customer: Display payment link to Sender
====
sender-->user: Send payment link
note left of user: Recipient clicks on the link
== Verestro's part of the process ==
user->verestrobackend: Redirect recipient to payment link webview
note right of verestrobackend: Recipient sees that he can claim money from sender
note right of verestrobackend: Recipient choosed xPay
verestrobackend->xpay: Open recipient xPay wallet
note left of xpay: Recipient chooses card
verestrobackend<-xpay: Return card
verestrobackend<-verestrobackend: Make payout to recipient card
customer<-verestrobackend: Notify customer about payout status
user<--verestrobackend: Top up card if status success
====
@enduml
```

Payout to card and xPay

A component that supports all key Payout to card and xPay processes. Each of the processes will be described below, maintaining the sequence of steps that take place from the initiation of the payout by the sender to the recipient of the payment using the xPay card token. The Payout to card and xPay component is responsible for the following actions:

- 1. Initialization of the payment shipment**, i.e. the moment when the option to order a transfer to a given recipient was selected and completion of transfer information such as amount or currency was provided by money sender. Payout to card and xPay API checks whether the sender has sufficient funds in the balance.
- 2. Payment link creation and thus opening a payment session in our system** (storing information about the planned transaction, such as amount and currency). The generated payment link is returned to the sender so that the sender can send it to the potential recipient as a SMS message or via other communicators.
- 3. Opening Payout to card and xPay frontend view**. This is the view to which the recipient is directed after clicking on the link received from the sender. This view shows what amount the sender is sending and how the recipient can receive the money being sent (select the card from xPay wallet or provide card number manually to receive the money).
- 4. Communicating with xPay server (if xPay wallet has been chosen as the source of the card)**. Once the xPay wallet is selected, we communicate with Apple Pay or Google Pay so that the recipient can select the appropriate card from the wallet. The selected recipient's card is returned in the form of an encrypted token to which the declared amount should be transferred.
- 5. Processing payment**. Payout to card and xPay API will perform the order to top up the recipient's card by contacting the acquiring institution and debiting the sender's balance in Antaca.

Antaca

This is the initial component in the payout process. [Antaca](#) is responsible for creating balances for you company and it's users, or allowing to credit/debit your balance depending on the direction of the funds. Antaca also monitors the balance of each entity, ensuring that the requested action on the balance is performed after meeting specific conditions, for example, it is not possible to debit the balance for more funds than are currently in the balance (you cannot send 100 EUR if you have only 99 EUR on your balance). It is also not possible to top up a balance that has been deactivated. The table below shows Antaca's methods for creating, crediting and debiting a balance.

Tip: In the Payout to card and xPay product, Verestro is responsible for appropriately calling the Antaca methods that credit or debit the balance. You, as a Customer, only need to send us information on which balance and of what amount we should call a given operation.

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