

Offline Transactions

Introducing Payala and how to integrate with Mojaloop

Structure of this talk



- Who we are
- What Payala is
- How to integrate technically
- How to integrate financially
- Our ask

Who we are



- Financial Empowerment Partners
- US-Based private sector company
- We're experts in cybersecurity, finance, public policy
- We have real world operational experience
- We developed Payala

Who I am



- Julian Finn
- Based in Hamburg, Germany
- CTO and Co-Founder

Introducing Payala



- Peer to Peer Payment system. Secure, resilient, inclusive
- Works in intermittently offline scenarios
- Designed for challenging environments
- Designed to help ease liquidity availability problems
- Designed for low cost and light infrastructure footprint

How Payala works

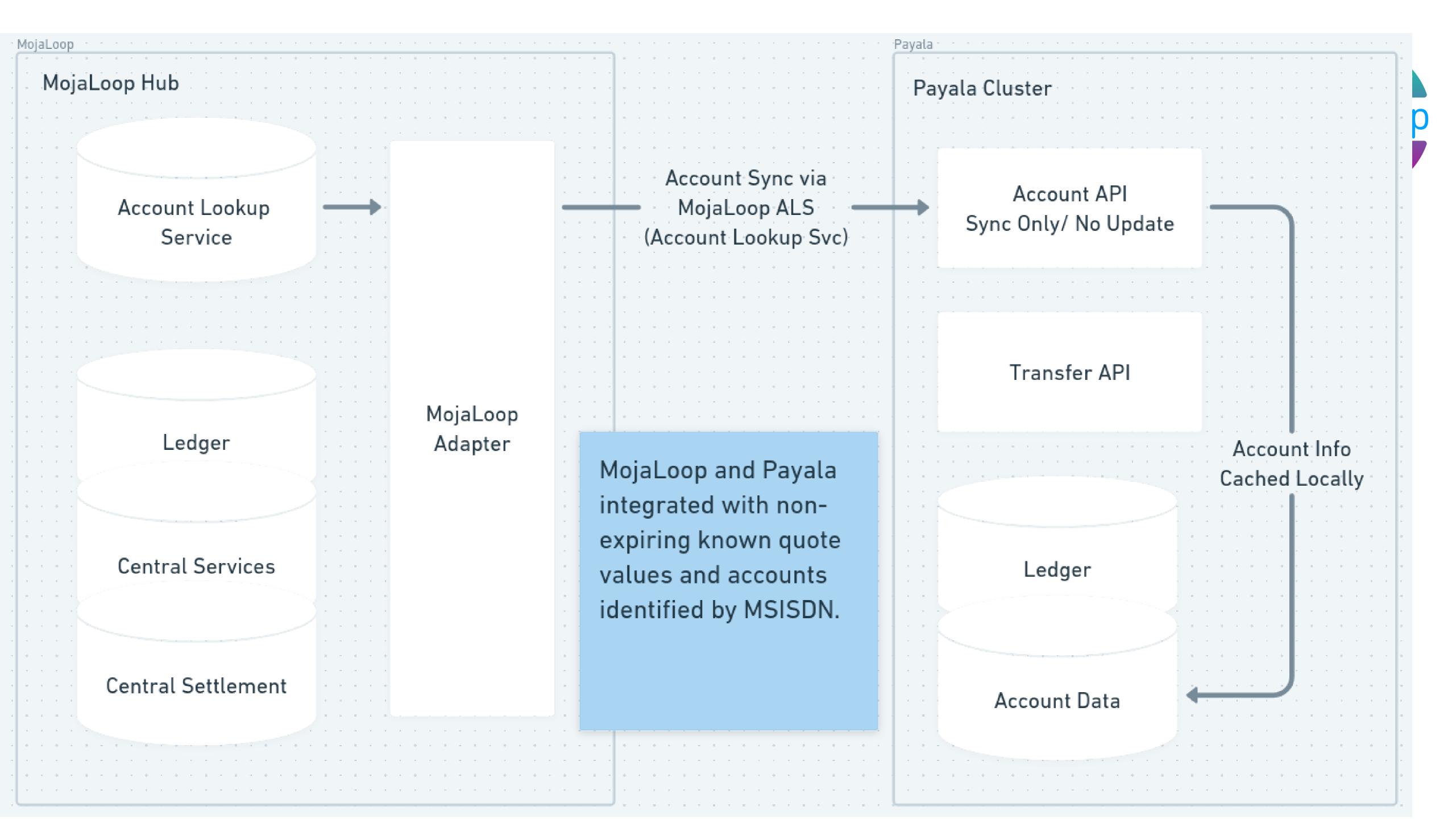


- Every user holds a smart card
- Smartphones act as terminals / transport layers
- Three different transaction modes, depending on connectivity
 - Remote
 - Local and Online
 - Local and Offline

Integrating with Mojaloop



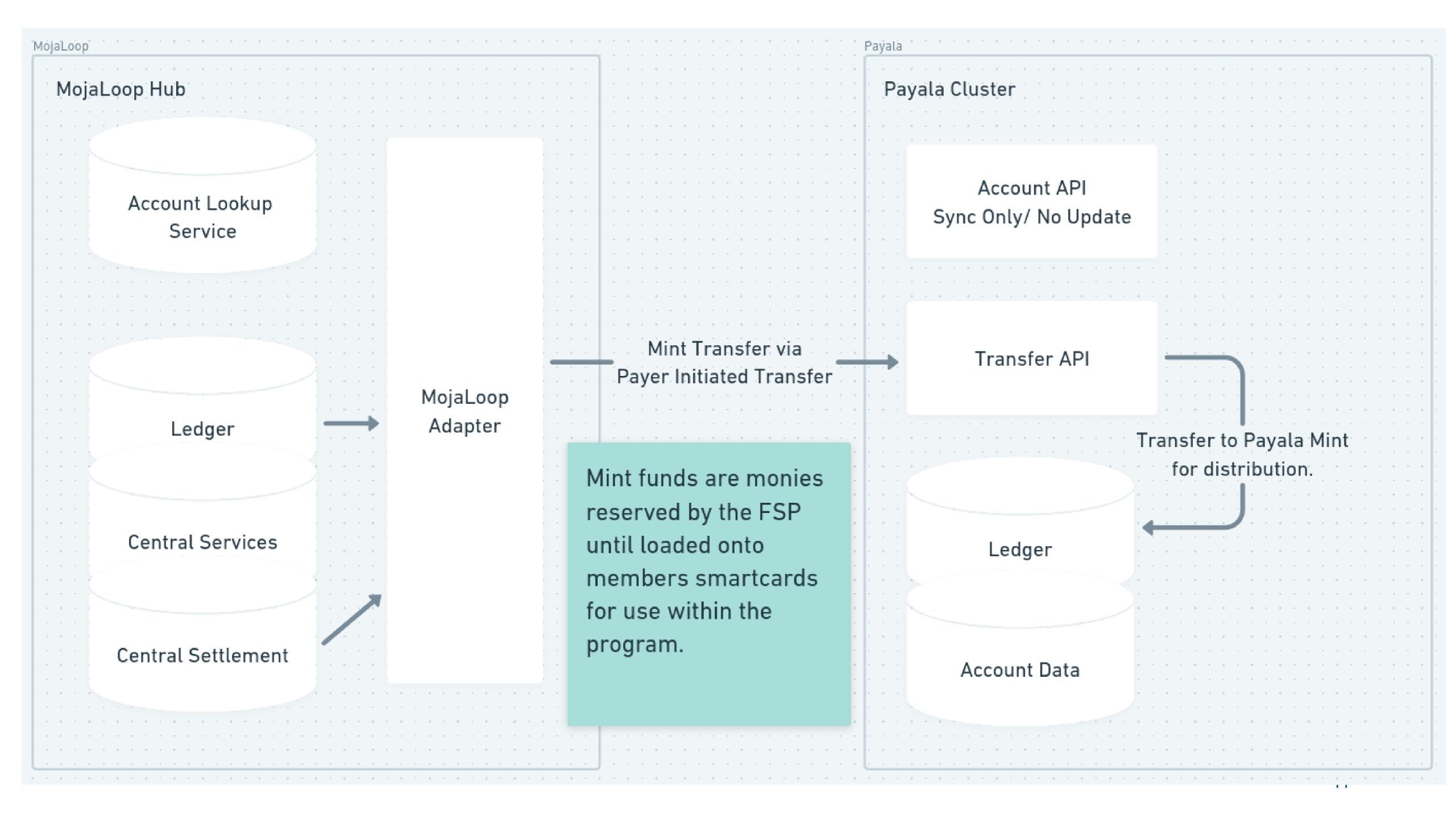
- Right now: Closed policy.
- Payala should stay that way, but attach to Mojaloop
- Monies need to be kept separate



Financial Integration



- Money Separation
- Offline Transfers and Eventual Sync
- Cashing Out



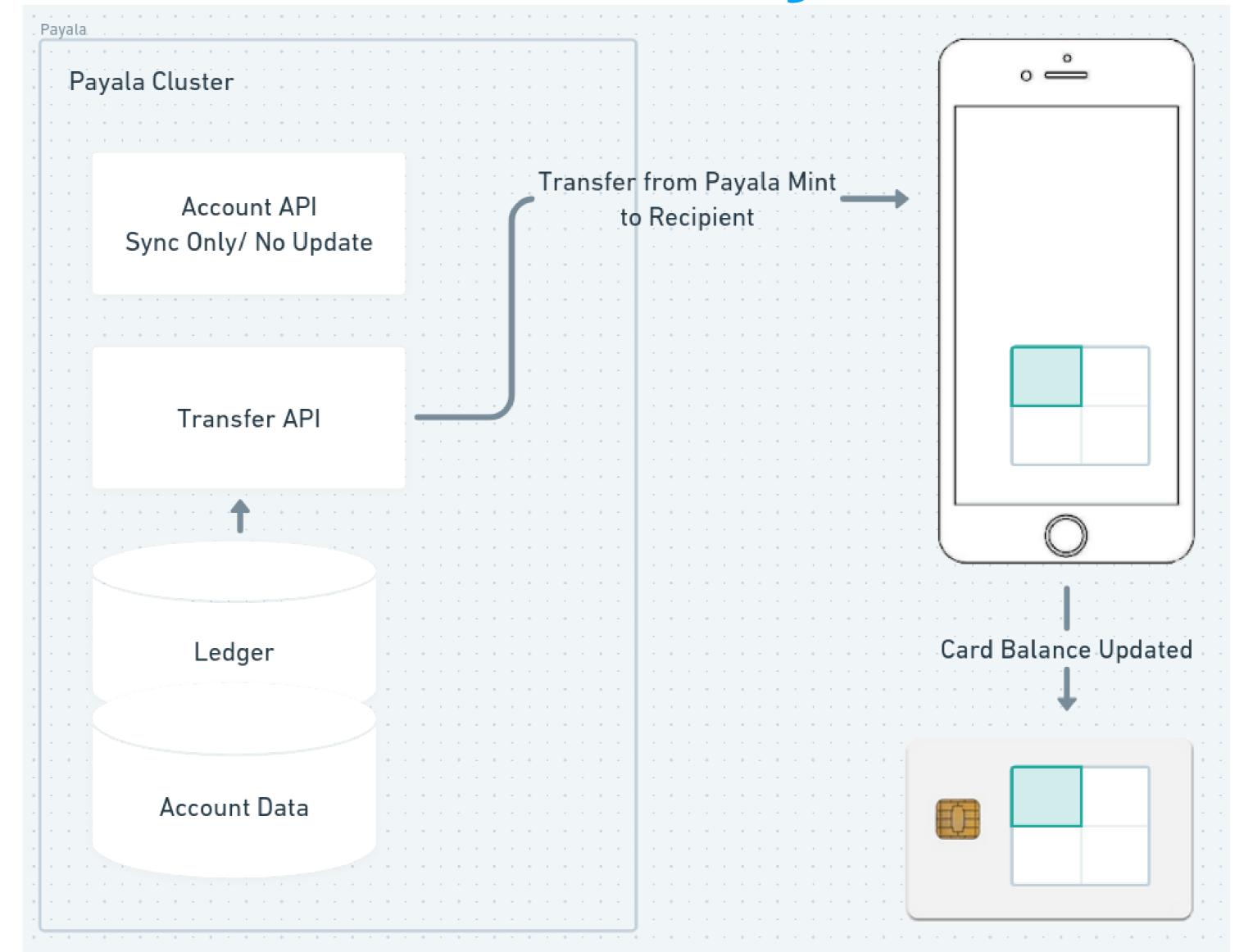
Money Separation



- Mint funds: Monies reserved by FSP until loaded onto Smartcards
- Funds minted into Payala are held in escrow accounts
- Ensure offline transfers never result in a negative balance

Offline Transfers and Sync





Offline Transfers and Sync



- Transfers made offline are stored on payer and payee smartcards
- Opportunistically synced once connectivity restored
- Limited Use Keys prevent duplicate spend
- Offline amounts can be constrained





- Moving money out of Payala via MojaLoop
- Fixed fees and auto-accepted transactions

Our Ask



- We're open to talk, we want to go country by country building ecosystems
- Pilot in Timor-Leste with great results
- We're looking for partnerships

Questions?



- My name is Julian Finn
- julian@payala.com