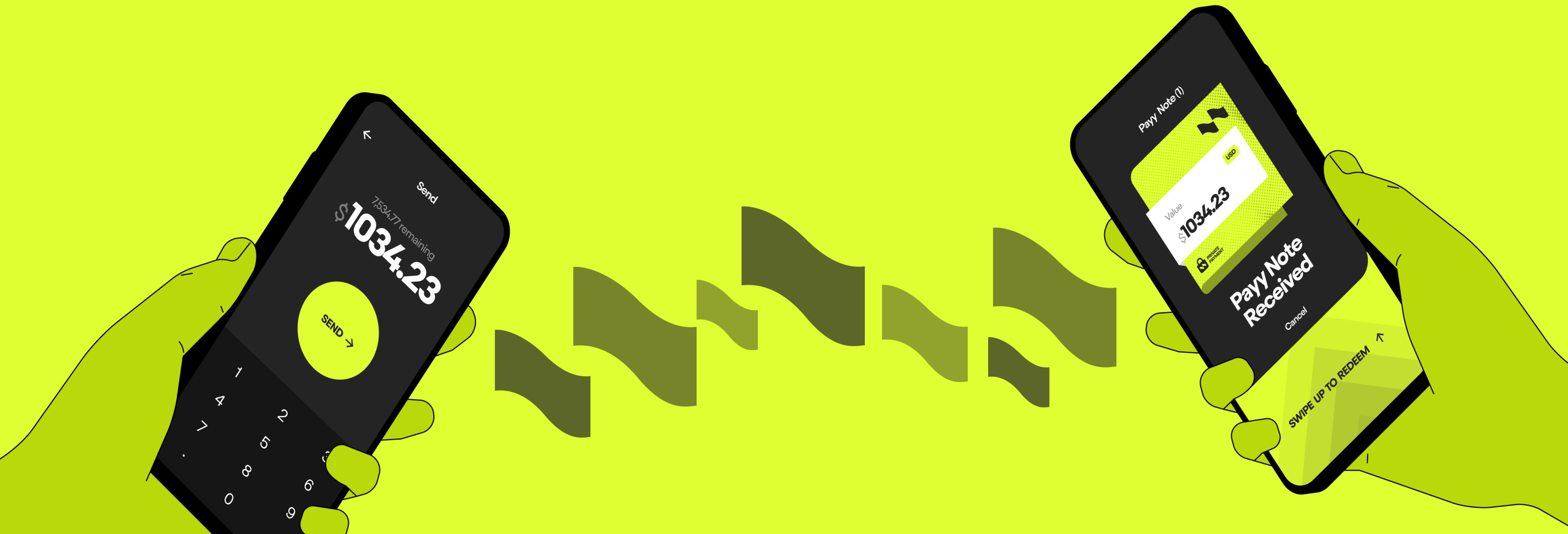


ZK in the wild - building private payments and beyond

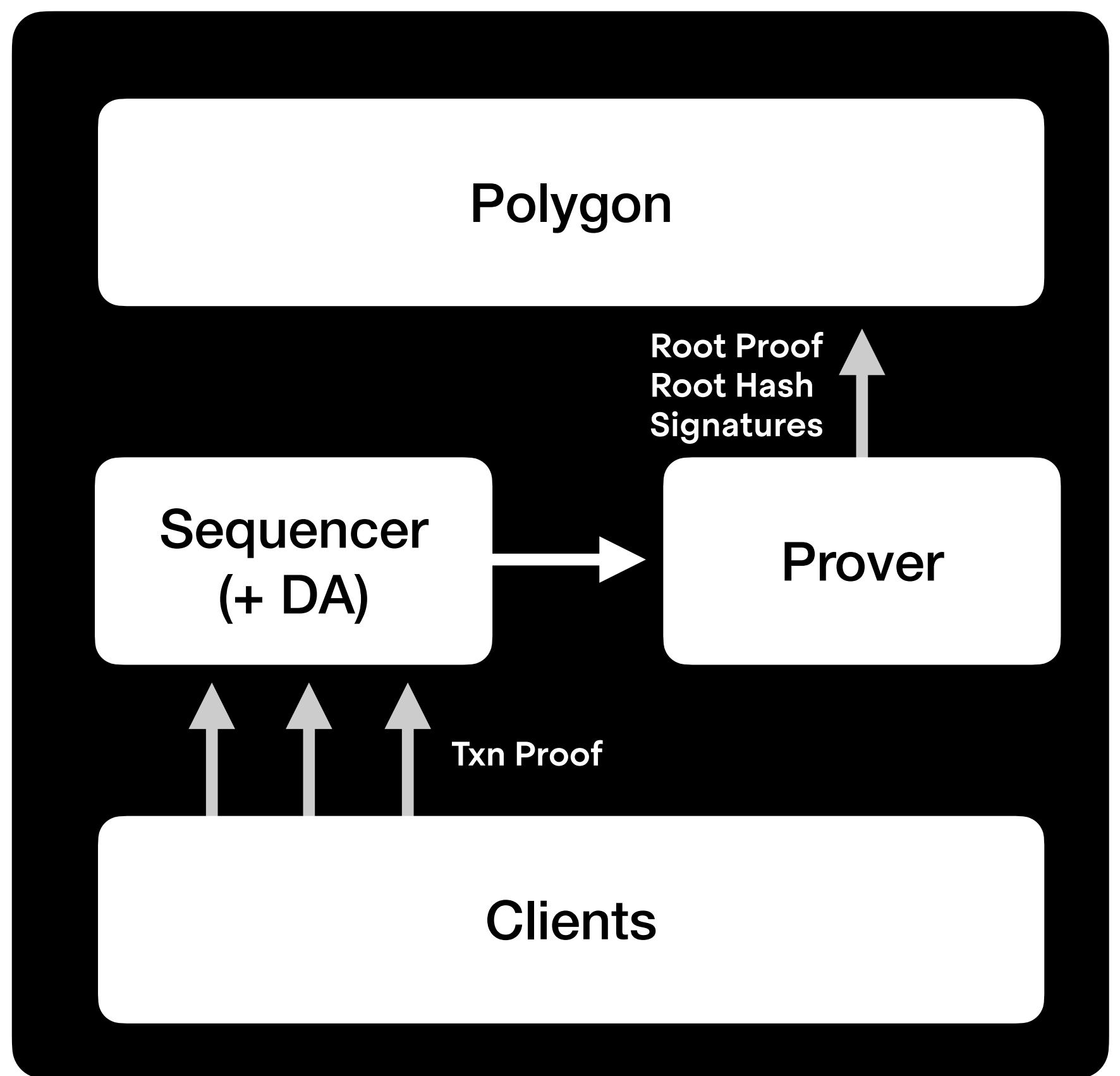


iPhone/Android
payy.link/download

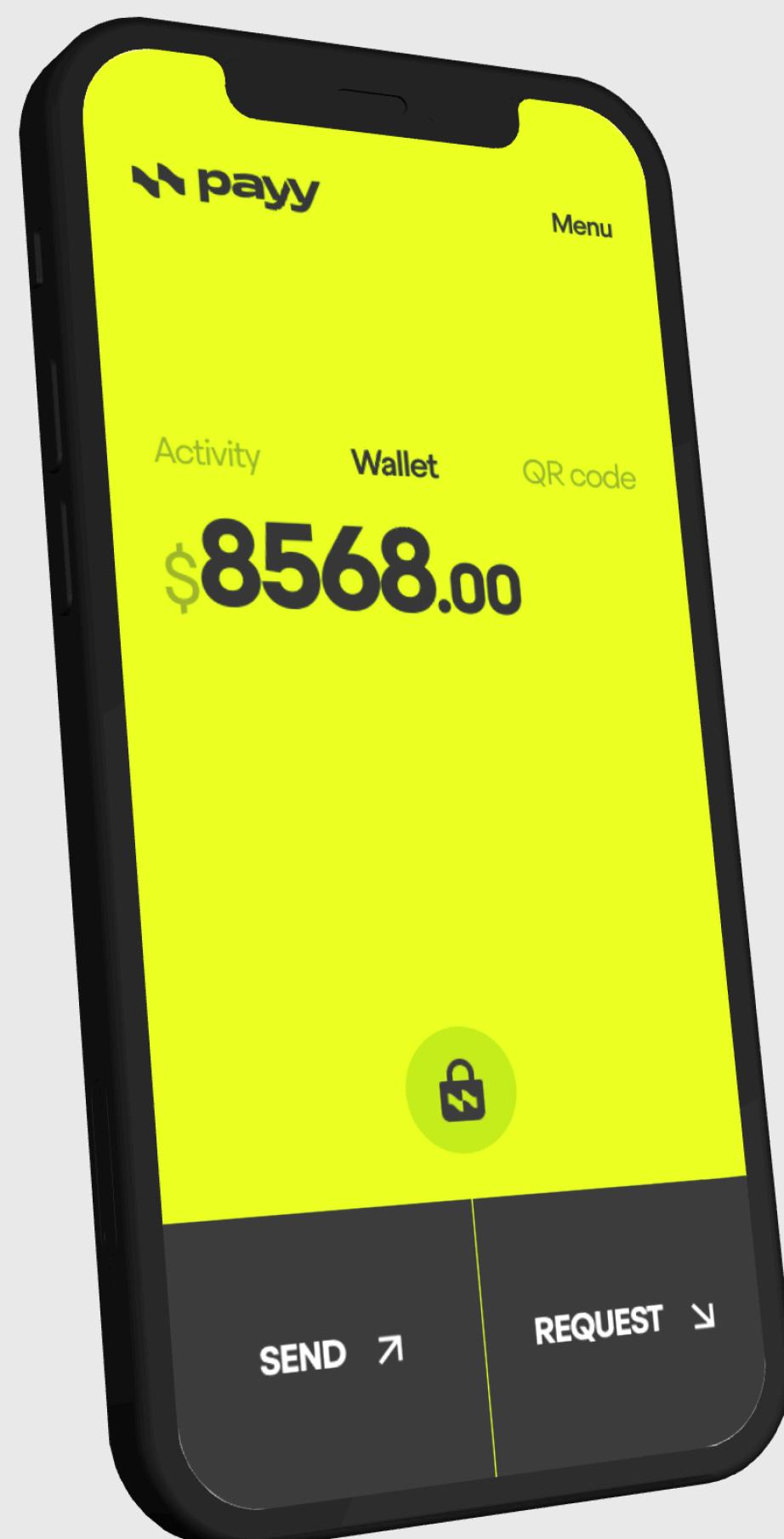
Calum Moore, CTO @ Payy

The logo for Payy features a stylized black wavy line icon followed by the word "payy" in a bold, lowercase, sans-serif font.

payy Network



payy Wallet





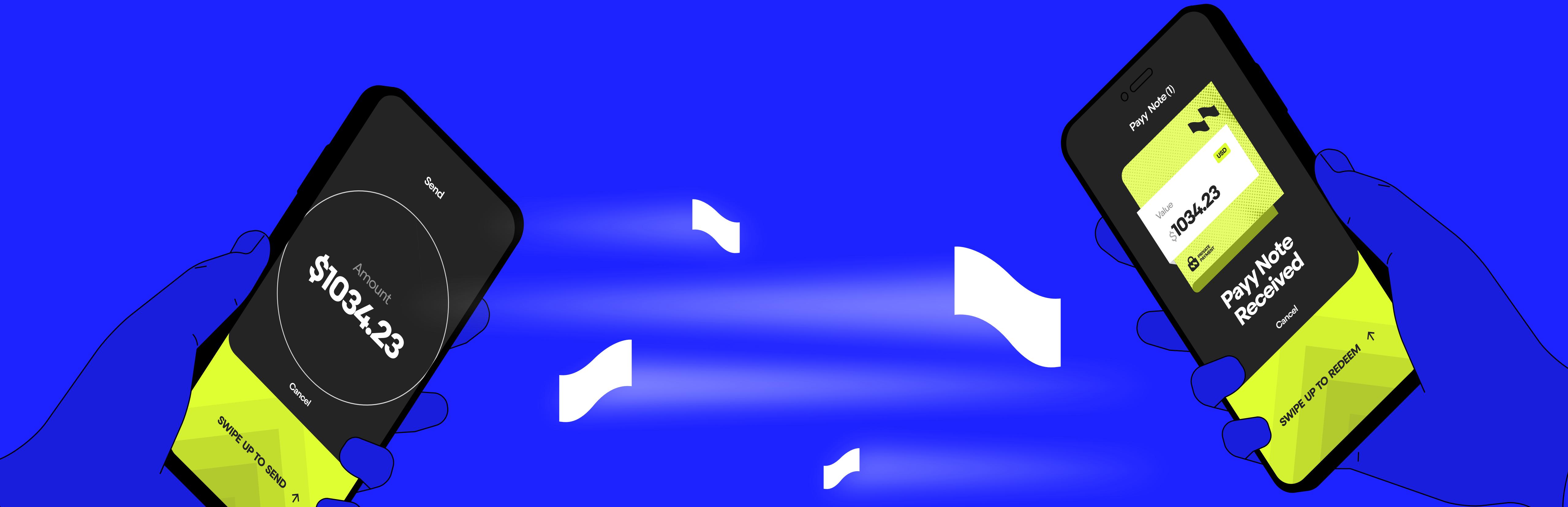
PRIVATE

NO ONE CAN SEE YOUR PAYMENTS. (NOT EVEN US)



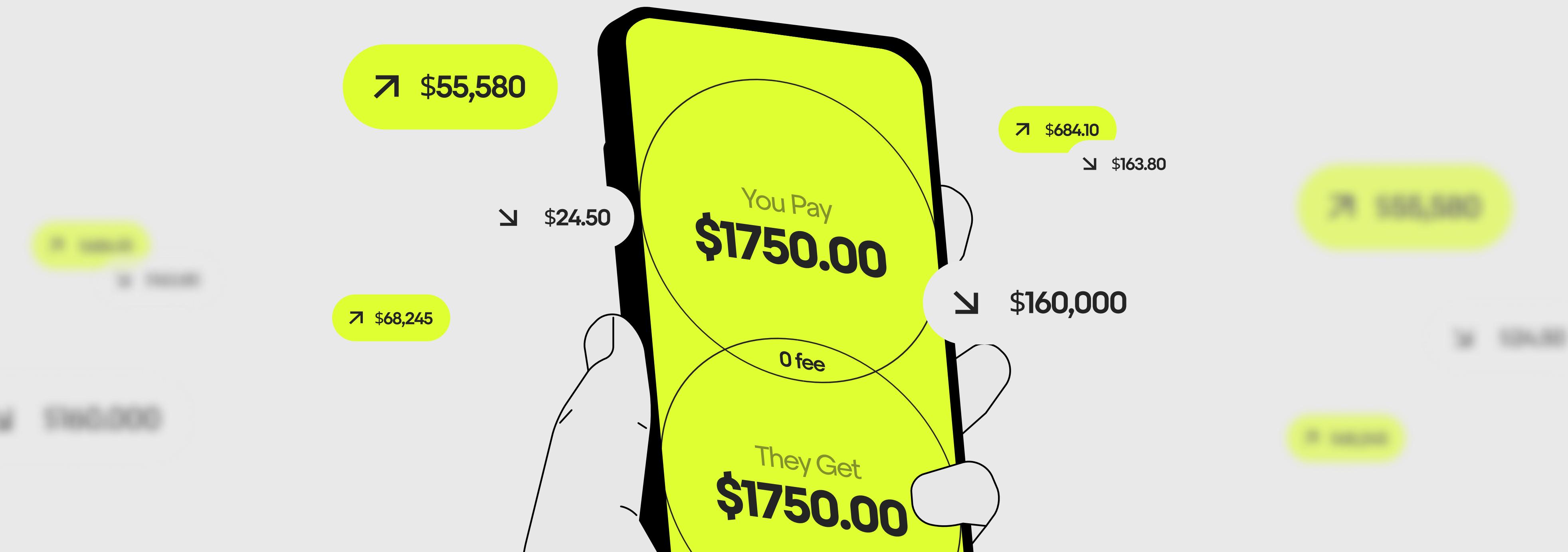


FAST PAY ANYONE IN
10 SECONDS.





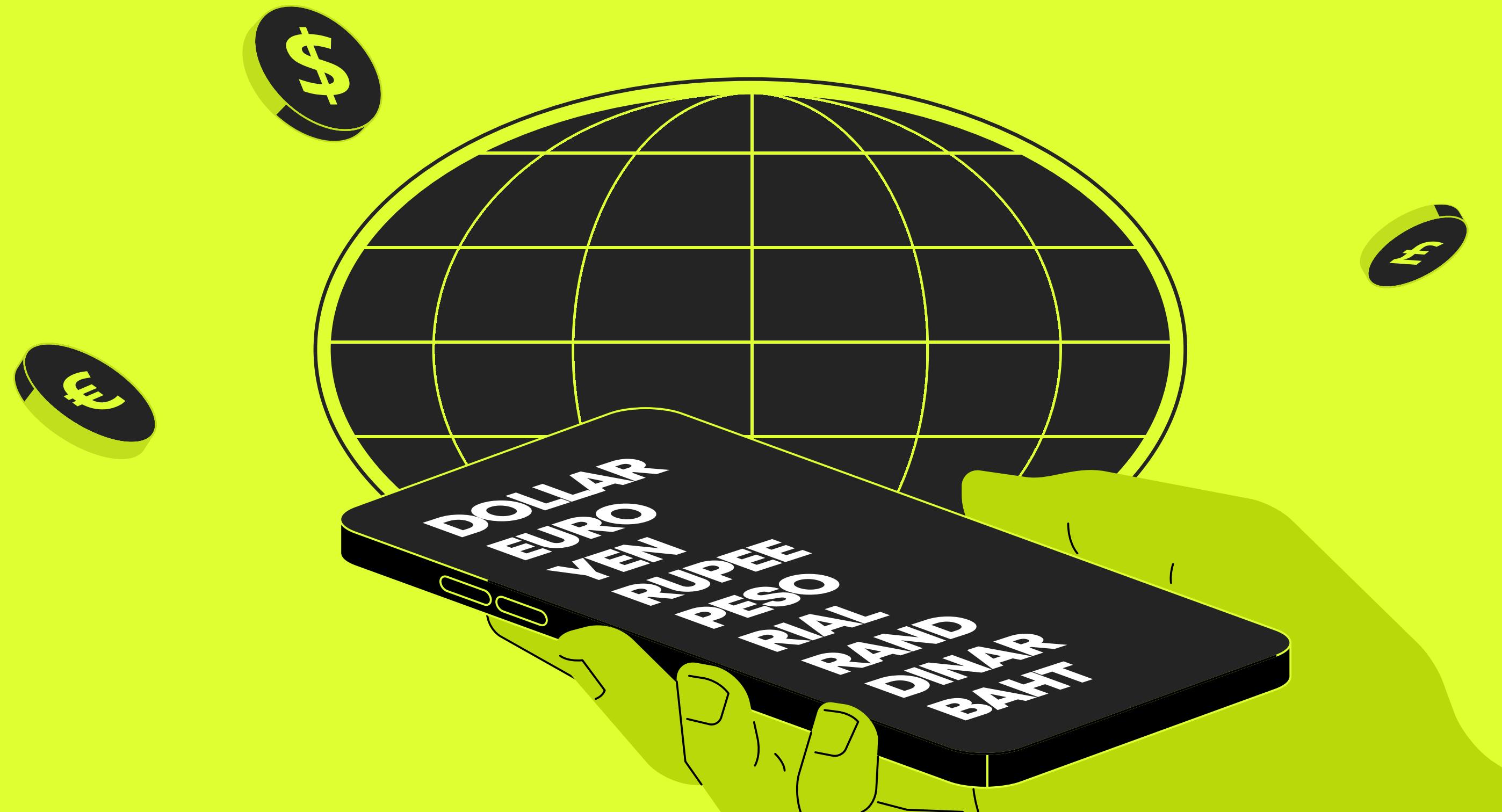
FREE ZERO FEES.
ANY
AMOUNT.



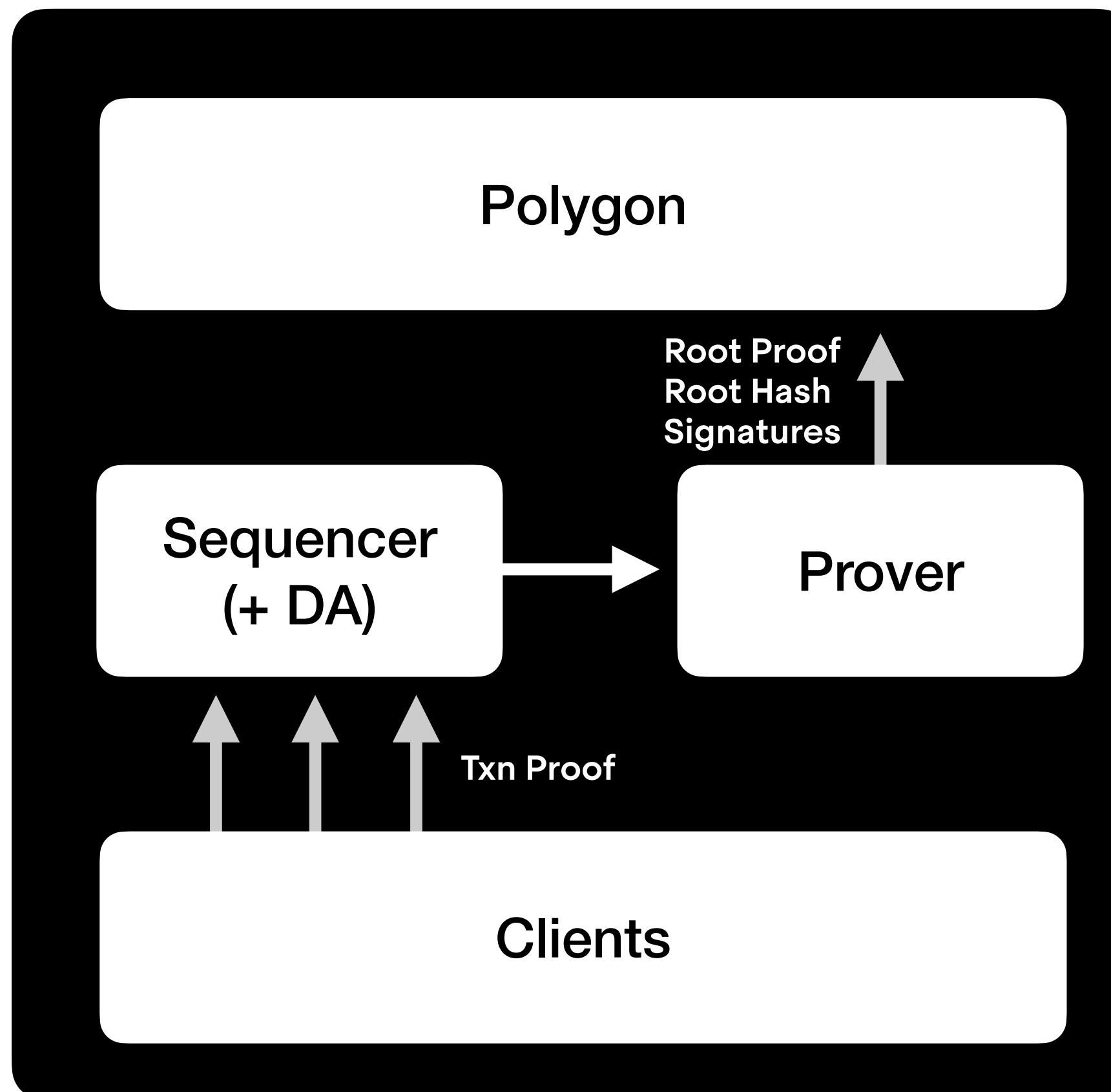


GLOBAL

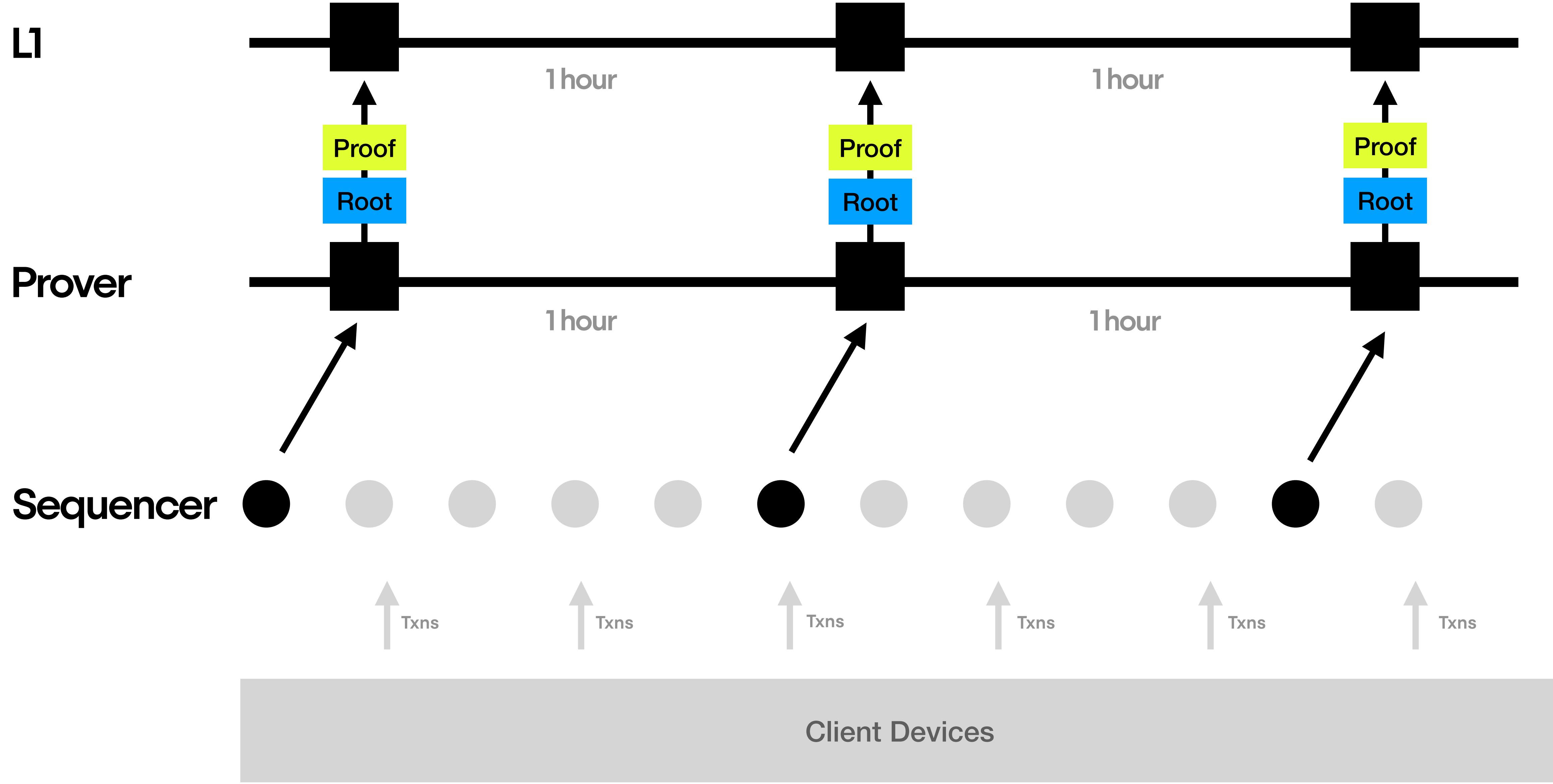
SEND MONEY TO ANYONE,
ANYWHERE IN THE WORLD.



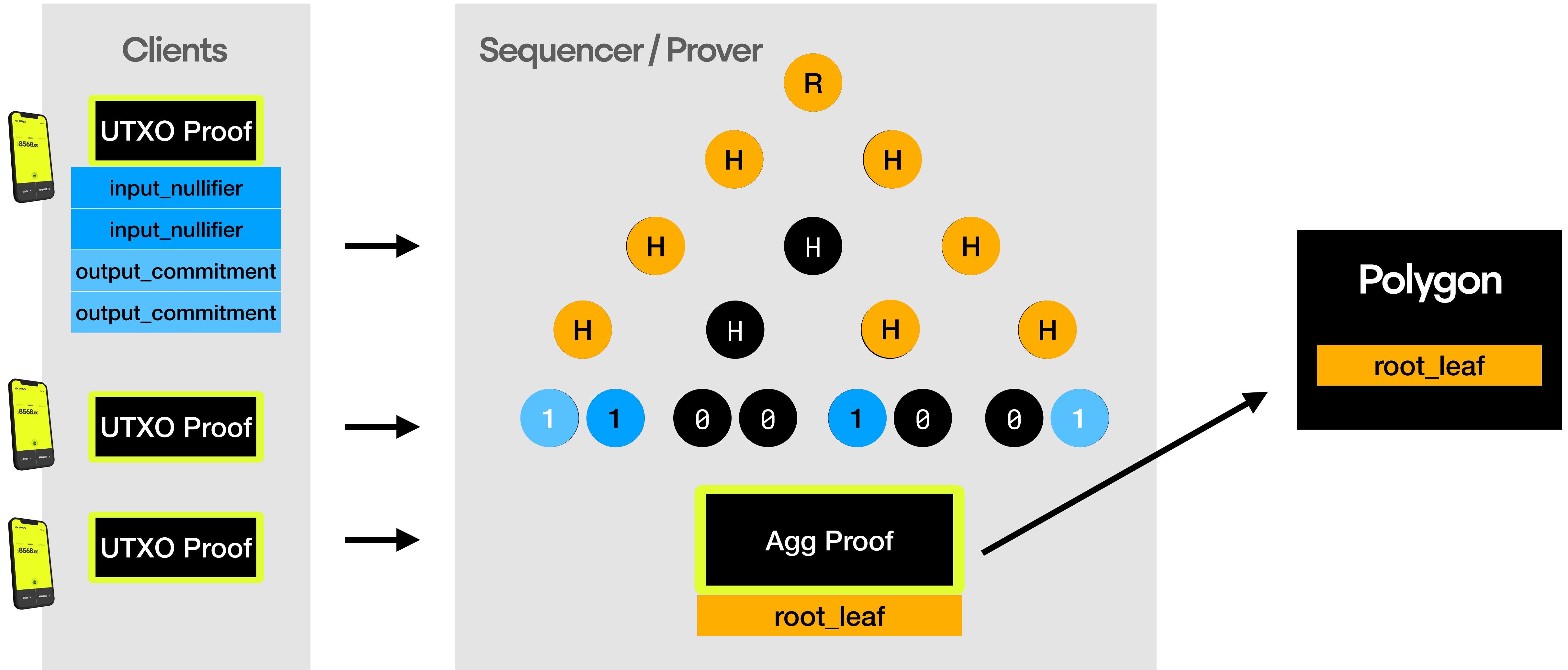
Payy Architecture



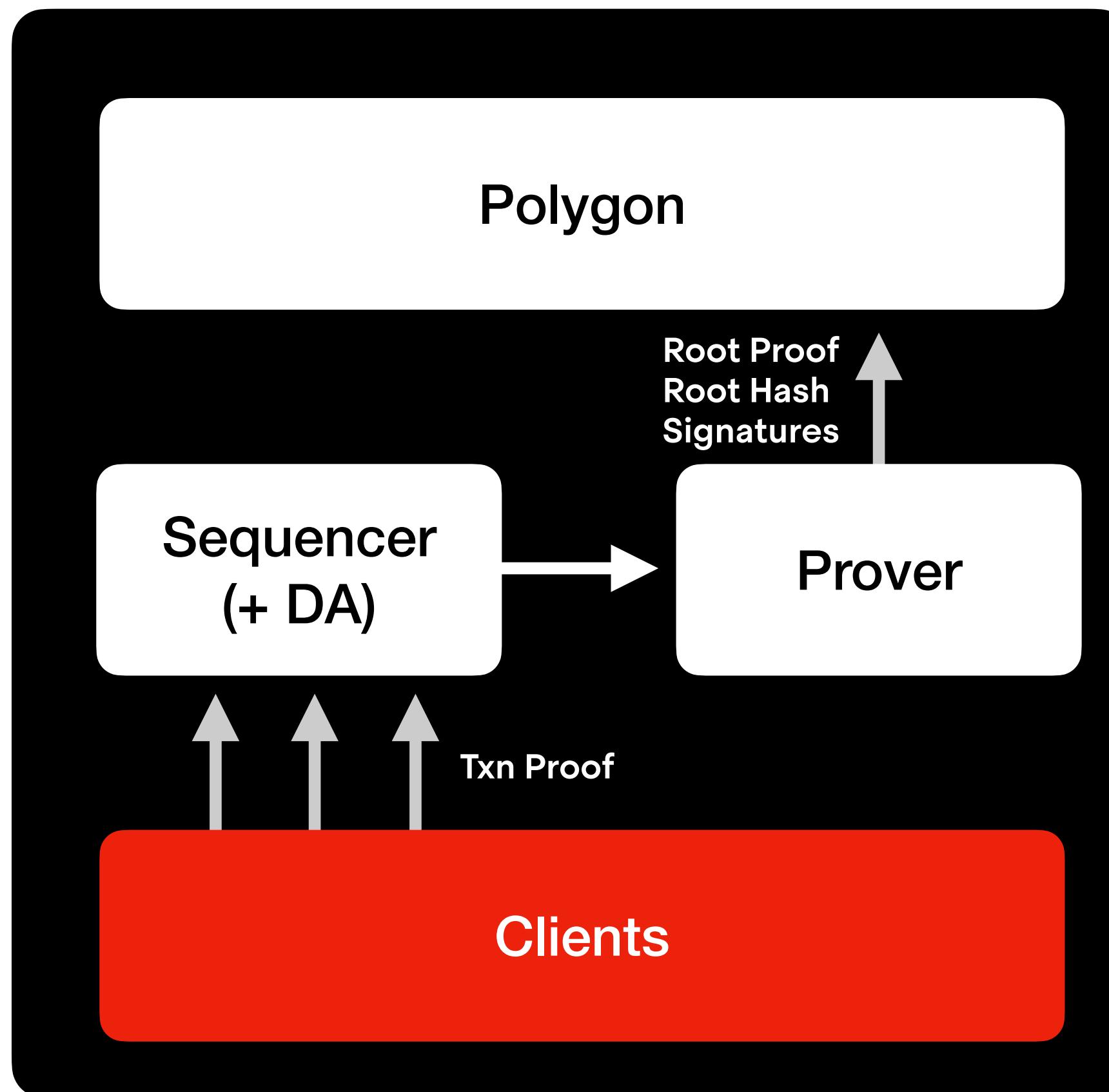
- Client generates a ZK proof
- Sequencer orders txns (into a block)
- Prover generates a single proof for the block and updates the root hash
- Prover sends root hash and proof to L1



In more detail



Payy Architecture



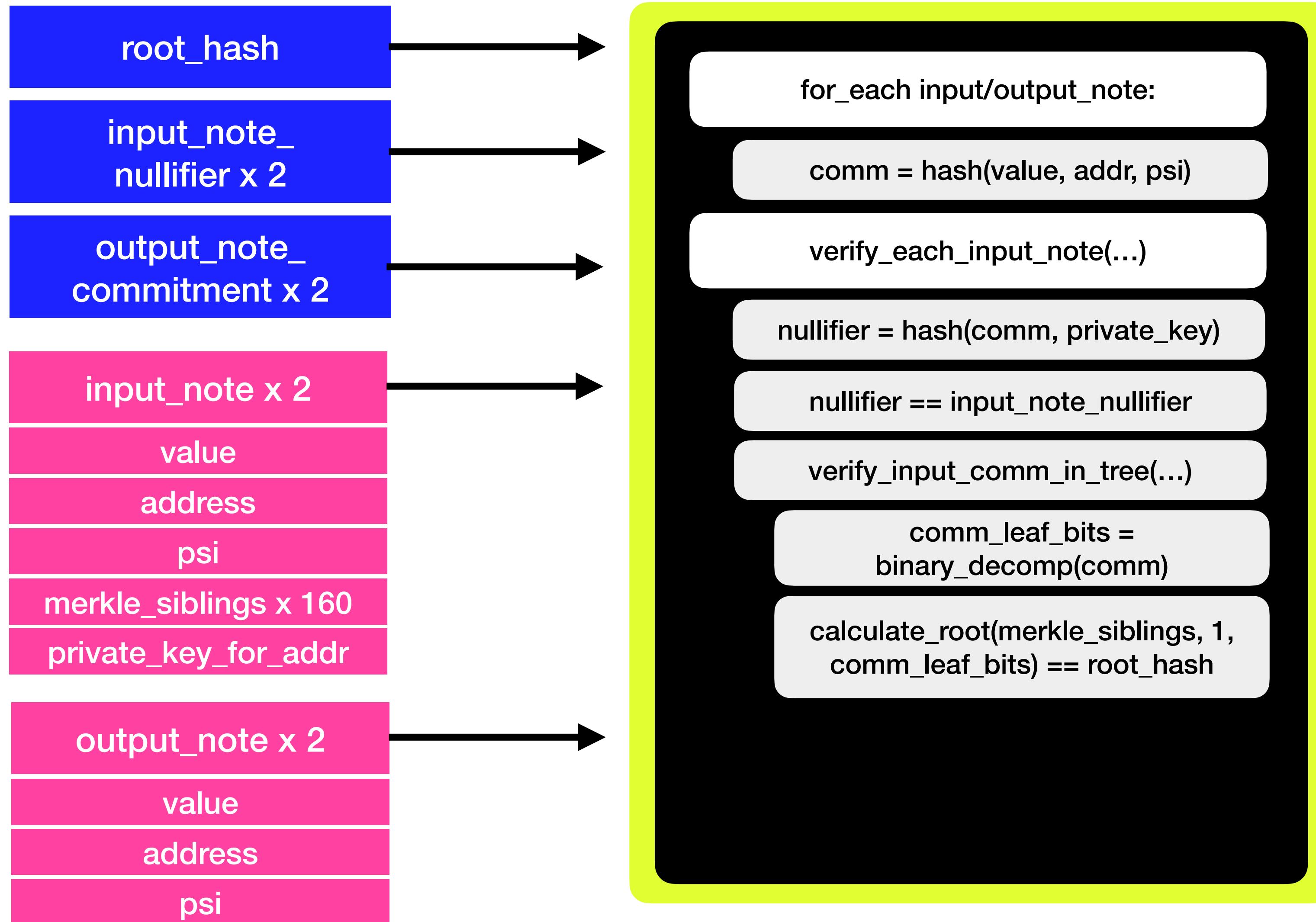
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UTXO based model

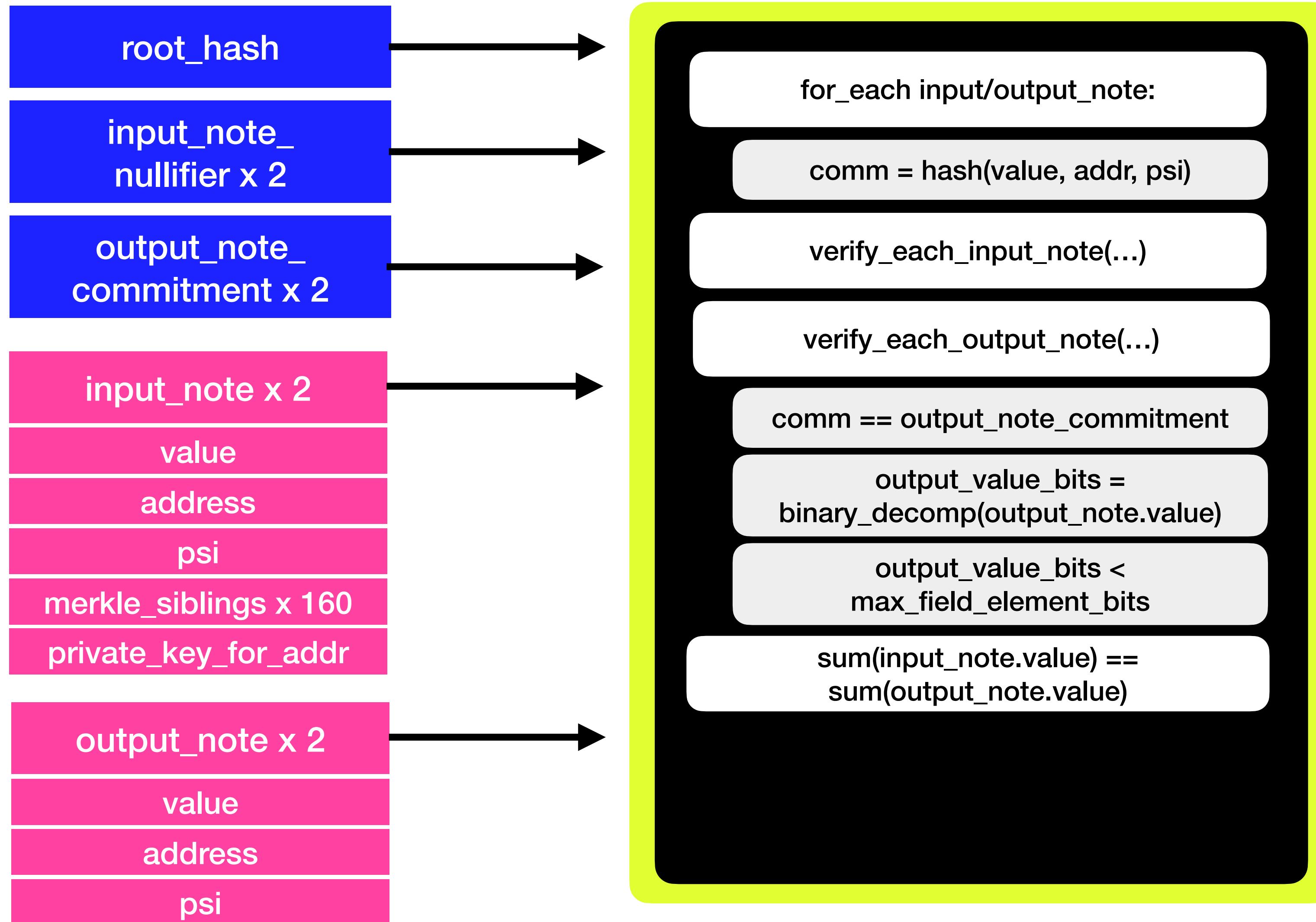


```
{  
  value: 0,  
  address: 0x...  
  psi: 0x...  
}
```

UTXO Proof



UTXO Proof



2¹⁴

constraints

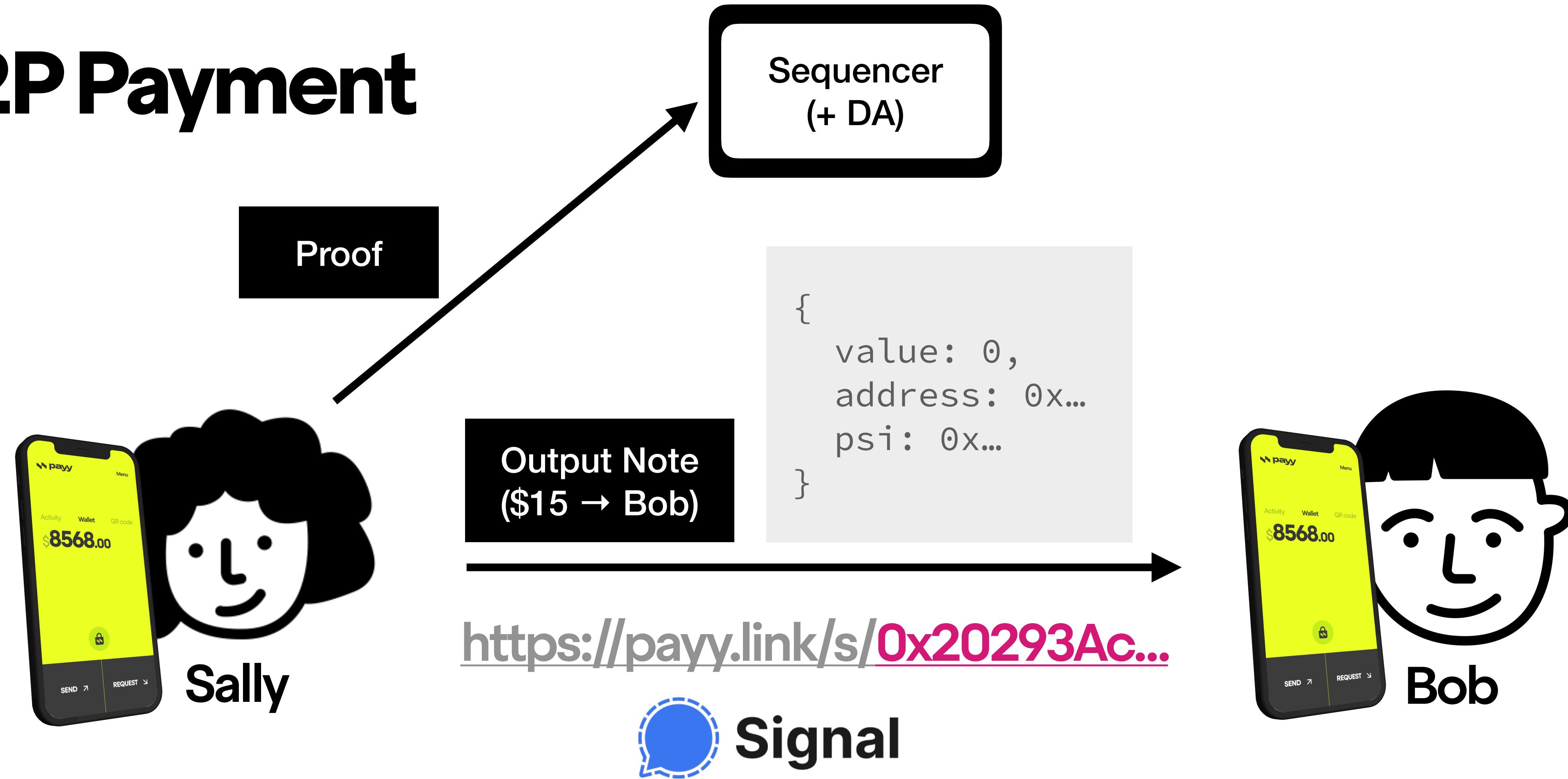
3s

cpu time

1.82KB

proof size

P2P Payment



The link is the money

Live Demo 😬

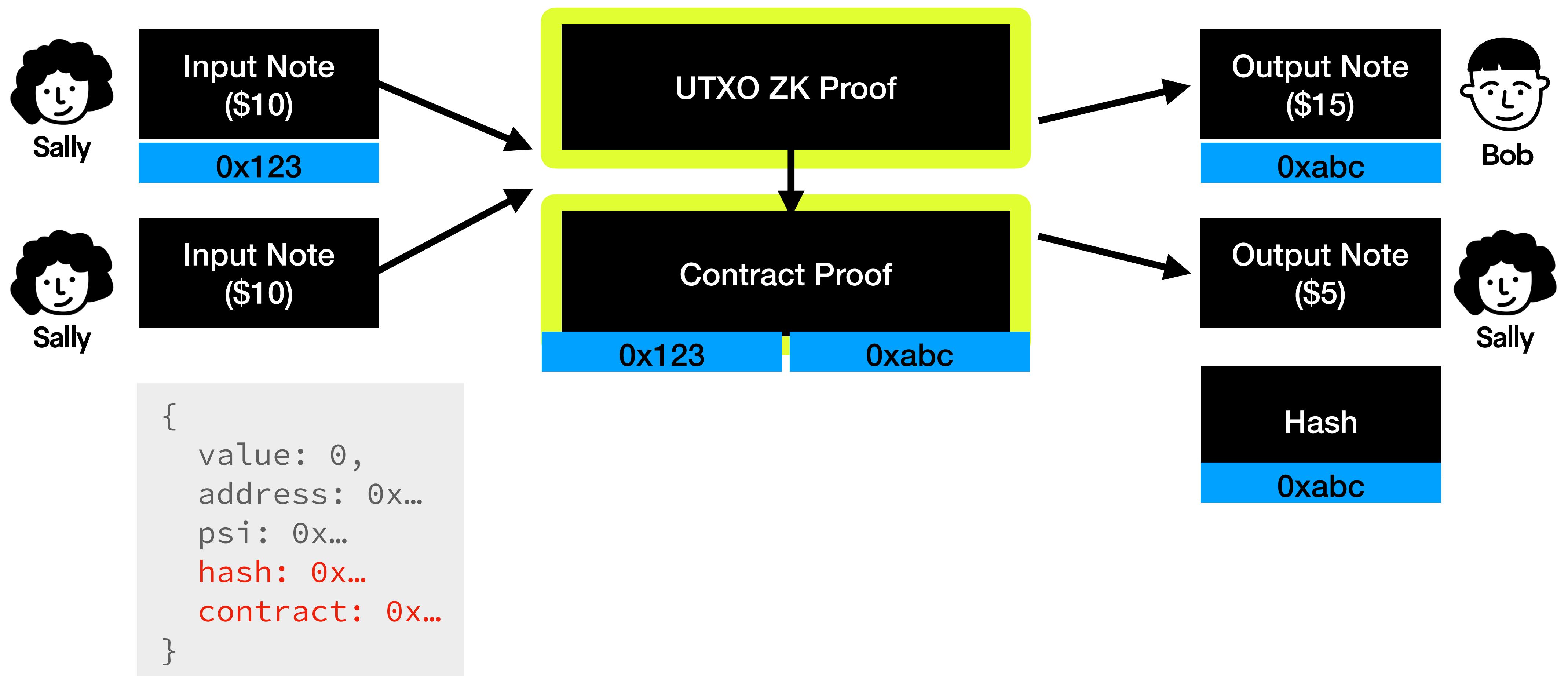
What about programmability?

UTXO based model

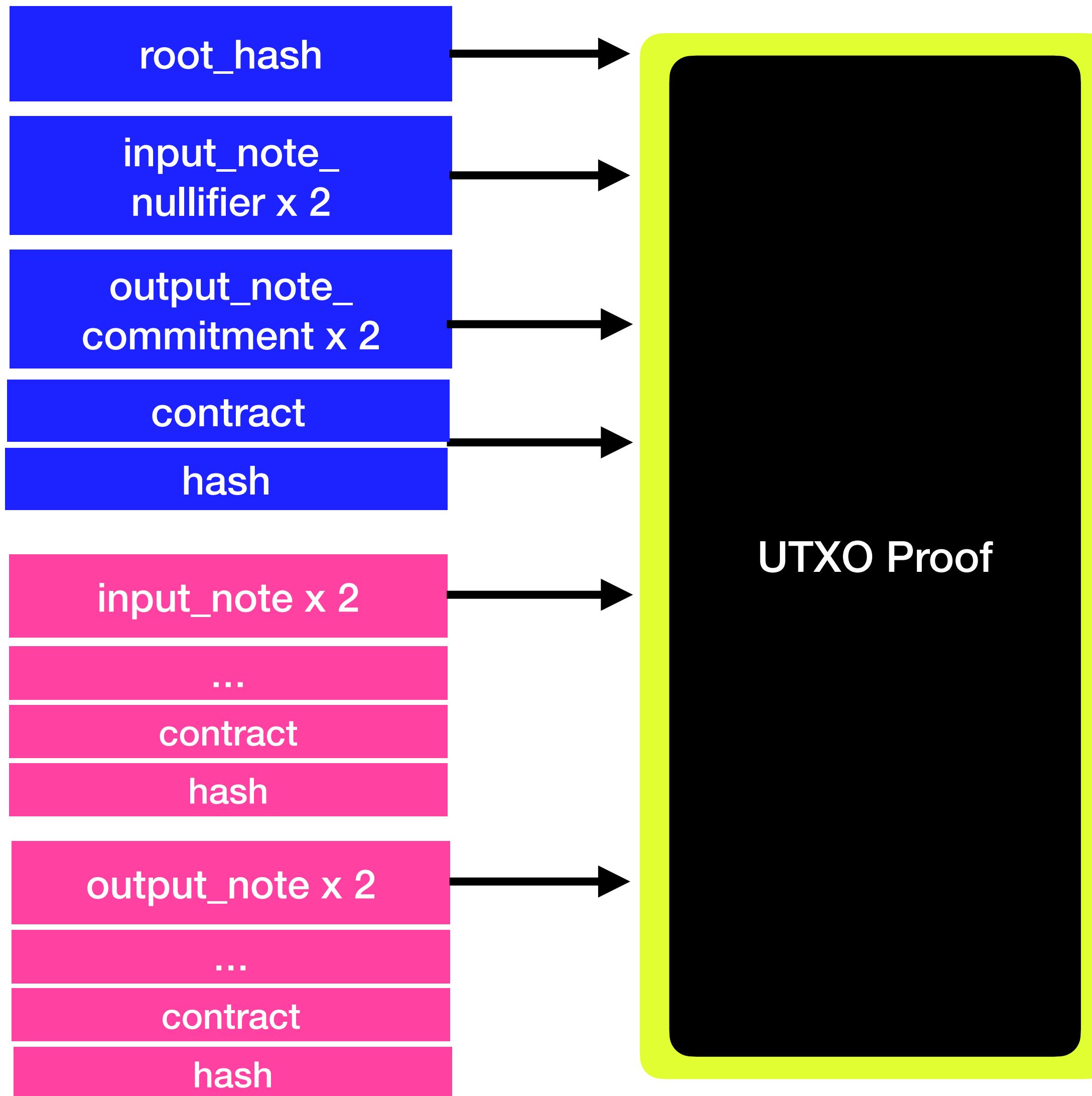


```
{  
  value: 0,  
  address: 0x...  
  psi: 0x...  
}
```

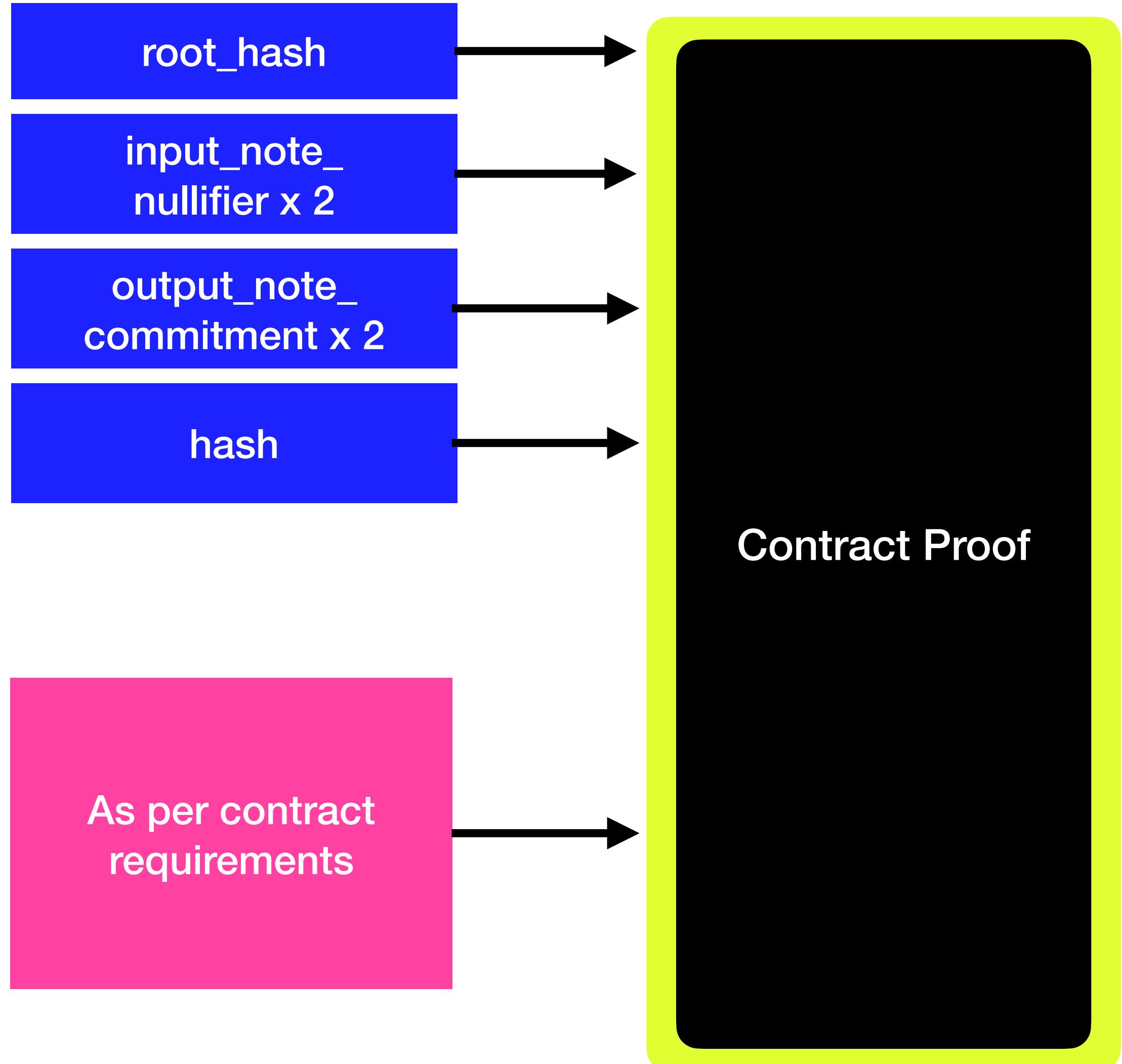
Programmable UTXO



UTXO Proof



Contract Proof



Thank you



iPhone/Android
payy.link/download



@calummoore