



SIMPLEXUM

Payment Engine

Features for Bitcoin and
Bitcoin-based cryptocurrencies

Technical summary

Multisignature:

- any combination, up to 15 participants

Address formats:

- p2pkh, p2sh, p2wpkh, p2wsh

BIP32 paths:

- arbitrary: /0'/1'/231'/555/2
- templates: /bip44/account/0/internal
/custom/symbolic/path

Keys:

- static, random, HD
- various combinations
- within one system

Bulk payments:

- transaction batching
- handle tx size limitations:
payment automatically split into several txs

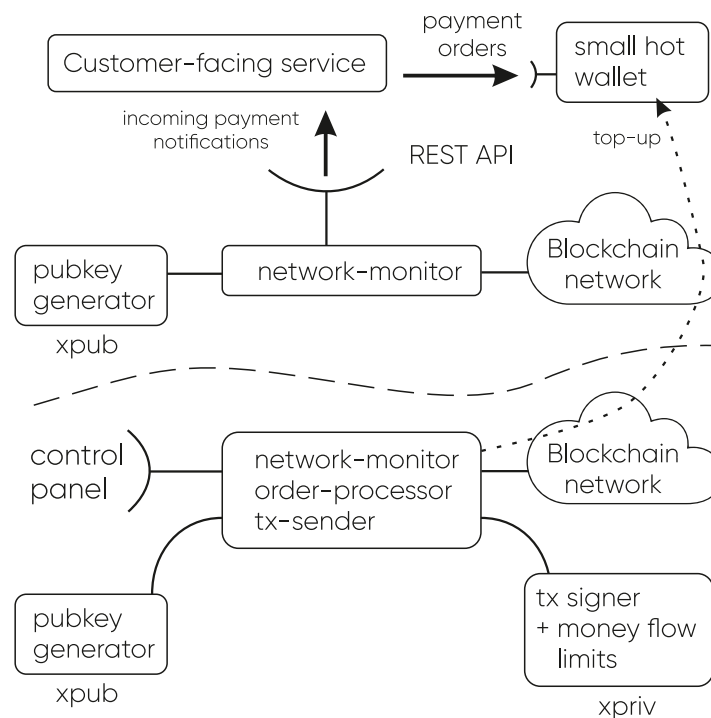
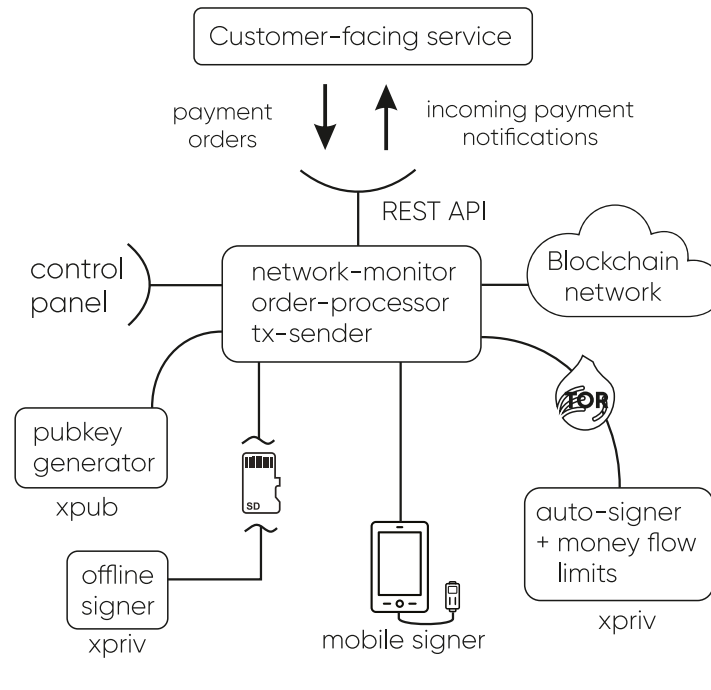
Scheduled payments:

- periodic or manual
- payment order priorities
- payment groups with individual
schedule policies

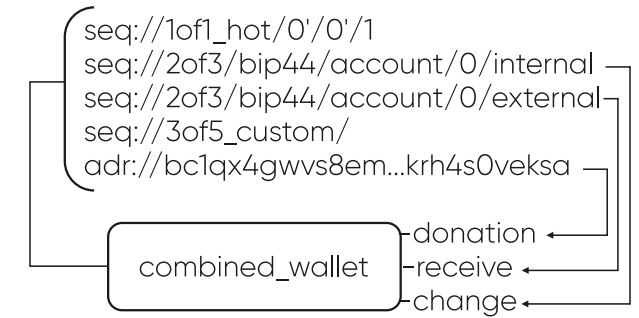
Fee-dependant UTXO set optimization:

- when fee is low, consolidate UTXO during
regular payments (make txs bigger)
- when fee is high, create smaller txs

Example setups



Wallet compartments:



Money flow limits:

- in btc/minute or satoshi/second
- set by cryptographically signed commands
- commands printed as QR codes on paper
- establish paper trail procedures for limiter
settings changes

Hierarchical balance and spending:

- whole account:
seq://3of5/purpose48/account/20/*
- whole department:
seq://cold2of2/main/7/department/2/*
- whole sub-hierarchy:
seq://custom_1of4/0'/25'/6/*

UTXO-level control:

- put tags on individual UTXOs
- handle UTXOs under one tag as a group
- exclude tagged UTXOs from wallet balance