SLP SWAP PLATFORM

The Problem

Currently no fully peer-to-peer, non-custodial protocol exists that allows two parties, in a trustless manner, to exchange different SLP tokens with one another without the use of an escrow script contract.

The Solution

Using a modified version of the platform and protocol currently running the sabong.cash counterparty matching and validation system, an API delivering a similar user experience to Simple Ledger Postage Protocol + Sideshift.ai is possible. A few advantages over SideShift:

- Exchange is made in a series of chained transactions dependent on one another
- Chained transaction dependency means that the exchange is settled instantly and a double-spend by the initiating party invalidates all transactions, completely eliminating risk to the counterparty/platform operator.

Workflow

1. Exchange API endpoint gives information on tokens available (and associated destination addresses), exchange rates, and maximum exchange amounts
2. In their wallet, the user selects the token type they want to exchange and the token type they want to receive in exchange.
3. User selects amount, which will show amount of token they will receive (based on exchange rate)
4. User creates an SLP transaction (lacking postage) with the following outputs
    a. SLP Exchange amount to counterparty address
    b. BCH postage amount to self
5. User broadcasts transaction via webhook model
6. Exchange validates and adds postage to user transaction and sends user the txid and the SLP amount that will be returned back
7. User creates desired return transaction, with the postage input signed ANYONECANPAY and the following outputs
    a. SLP amount to be received back to own address
8. User broadcasts second, chained transaction
9. Exchange validates second transaction, adds SLP inputs, and broadcasts both transactions

Scope Of Work

1. Fork of the current sabong.cash postage, matchmaking and indexing API

    a. Clear all current functionality except post office
    b. Modify webhook matchmaking engine to support SLP swaps
    c. Deploy to AWS
2. Add SLP Swap functionality into Badger
3. Publish specification and API
4. Code delivery

Estimated time for completion: 45 days
Price: $5000 USD