BitShares Architecture – CLI Wallet Client

<Example>

- cli_wallet provides the transaction signature function, which is broadcast after being signed by the witness_node.

cli_wallet

Business-A

CLI
CLI Wallet
Client

wallet_f
_withdraw.js

wallet_for
_deposit.json

(e.g.)uses own API Server

Business-B

CLI Wallet
Client

(e.g.)uses own API Server

Individuals

Bob

CLI Wallet
Client

wallet.json

Alice

CLI Wallet
Client

wallet.json

(e.g.) use Public API services

Wallet API
- General Calls
- Wallet Calls
- Account Calls
- Trading Calls
- Asset Calls
- Governance
- Privacy Mode
- Blockchain Inspection
- Transaction Builder

JSON format data Returns

REST
RESTful API

Websockets
(Real time Notification)

- cli_wallet provides Wallet API and Calls
via HTTP RPC

RPC - API

- cli_wallet connects to witness_node via websocket

(Business-A connects)
API Service

Trusted Full Node

Delayed Full Node

(Business-B connects)
API Service

Trusted Full Node

Delayed Full Node

High Security Setup

(Bob connects)
API Service

Trusted Full Node

Public Full Node

(Alice connects)
API Service

Trusted Full Node

Public Full Node

General Setup

API Node
Faucet provider

P2P Cloud Network

Block Producer (witness) Node

Block Producer (witness) Node

Seed Node

Full Node (witness_node)

(e.g.) Connecting a Cli-Wallet by using
"bitshares.openledger.info" as a Public Full node (API
Service)

./programs/cli_wallet/cli_wallet
          -s wss://bitshares.openledger.info/ws
          -H 127.0.0.1:8092
          -r 127.0.0.1:8093

*You can set parameter(s) to choose between
Websocket RPC (via the -r parameter) and
HTTP RPC (via the -H parameter).

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