Basic Project Description

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System goals

Stobox - Solaris

The system is aimed to optimize the expenses during operations with digitalised securities, reduction of ERC-20 tokens transfer fee, reduction of fees for other operations, with the possibility to confirm the operation in the Ethereum mainnet.

Benefits

- Low transfer fee (\$0.01)
- High transaction speed (3 seconds per confirmation)
- Enhanced security for operations with security tokens
- Possibility to publish transactions to L1
- Enterprise validators
- Automatic bridge

What will be included

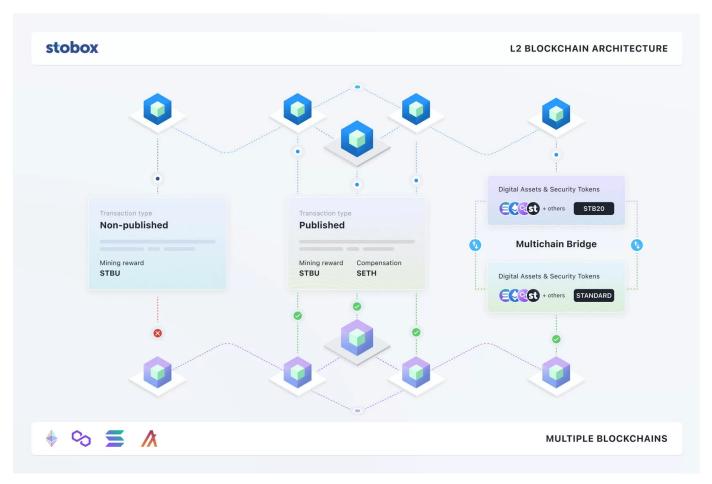
System will include:

- 1. Bridge between the Ethereum mainnet and our L2 system
- 2. Decentralized applications for trading with usual tokens and securities
- 3. Smart contract-based security system for management of smart contract deployers and operations with tokens
- 4. Blockchain based KYC and AML system
- 5. The possibility to publish transactions to the Ethereum mainnet with the 100x reduction of transaction fee. The fee will be paid with our network Ethereum tokens (L2ETH) and STBU
- 6. Smart contracts in L1 network for publishing of transactions from L2 network

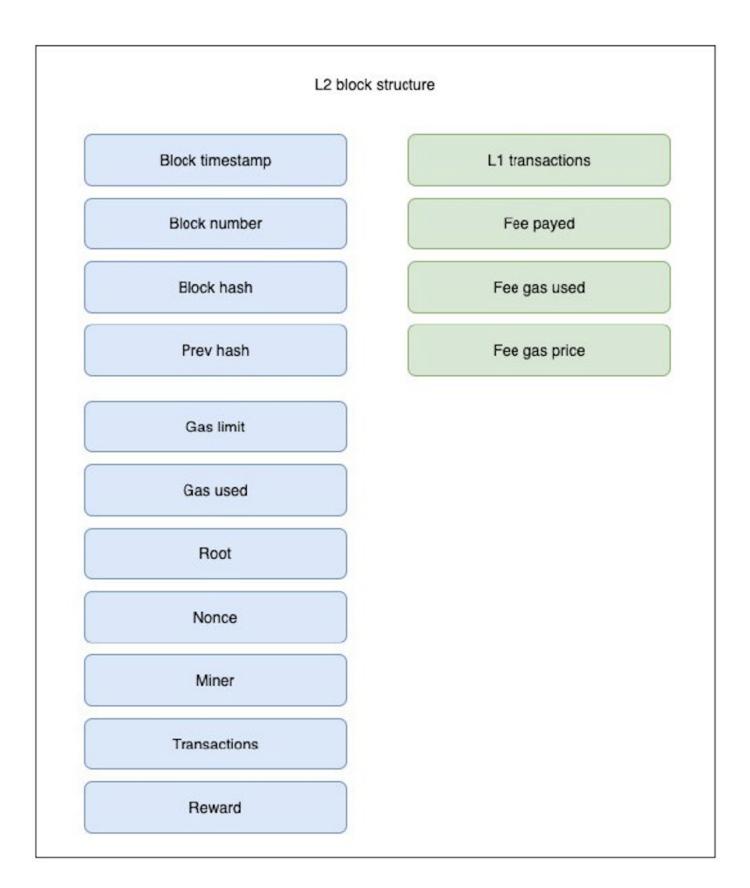
Technically:

- 1. Connector between L1 and L2 integrated directly into the blockchain node and the mining process
- 2. In the node, in addition to the main transaction pool, there will be a pool including transactions to be published to the Ethereum mainnet
- 3. Miner will receive rewards both in L2ETH and STBU, and will be able to transfer them to his wallet via the bridge
- 4. Changed block structure to support the payments in 2 tokens in parallel, with specification of an average value of transaction publication to L1
- 5. Proof of Stake

Architecture:

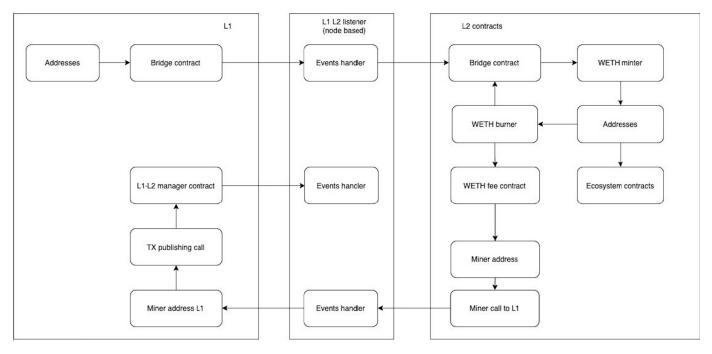


Block structure:

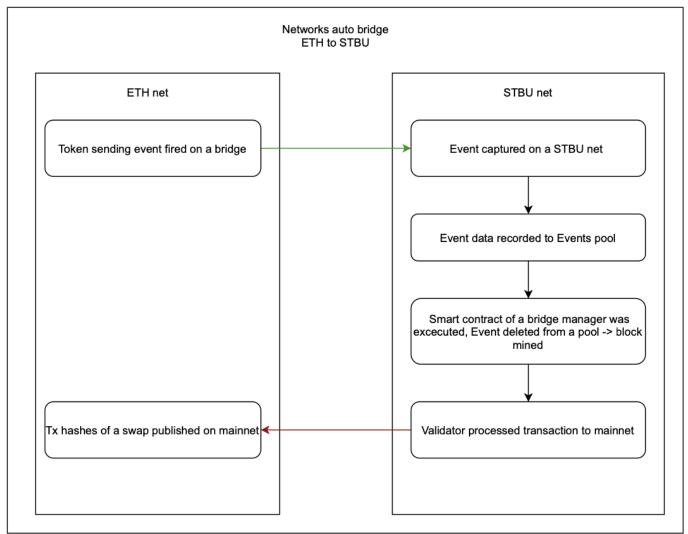


L1 - L2 communication schemes

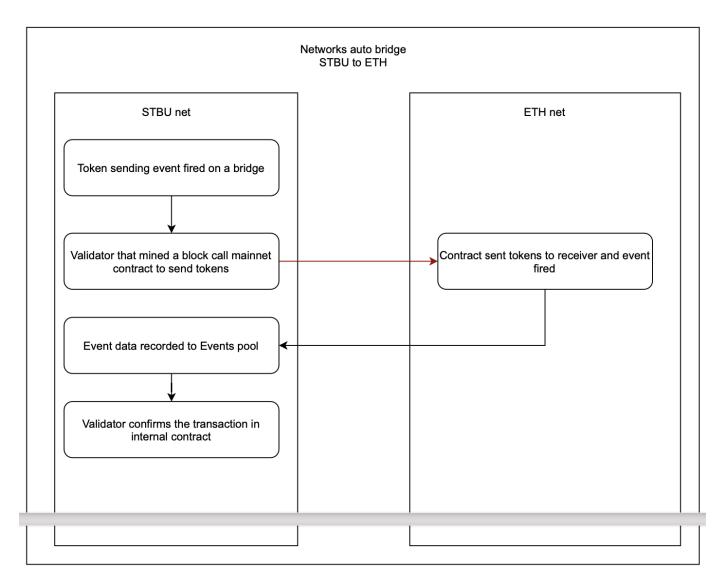
General communication model:



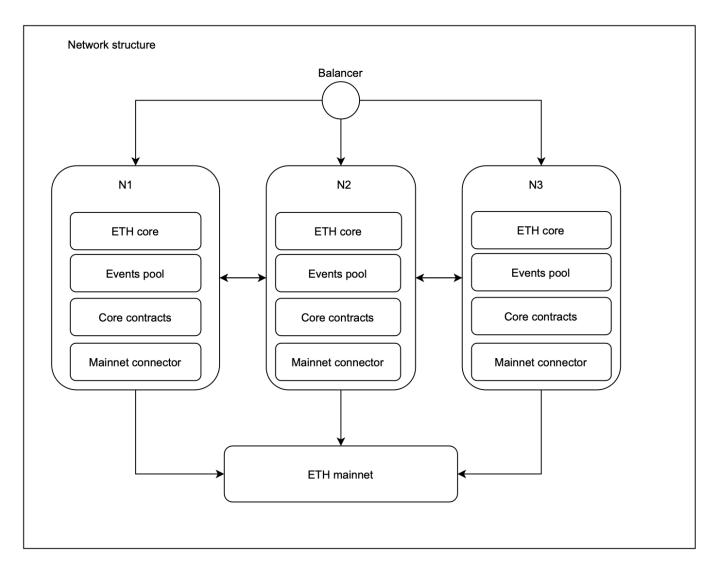
Transferring funds from L1 to L2, with transaction confirmation in L1:



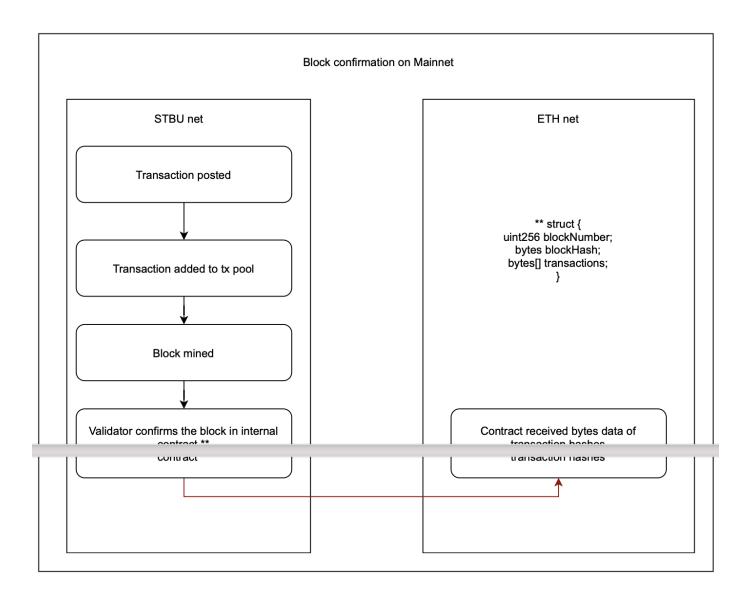
Transaction confirmation in L1 network:



Network structure:



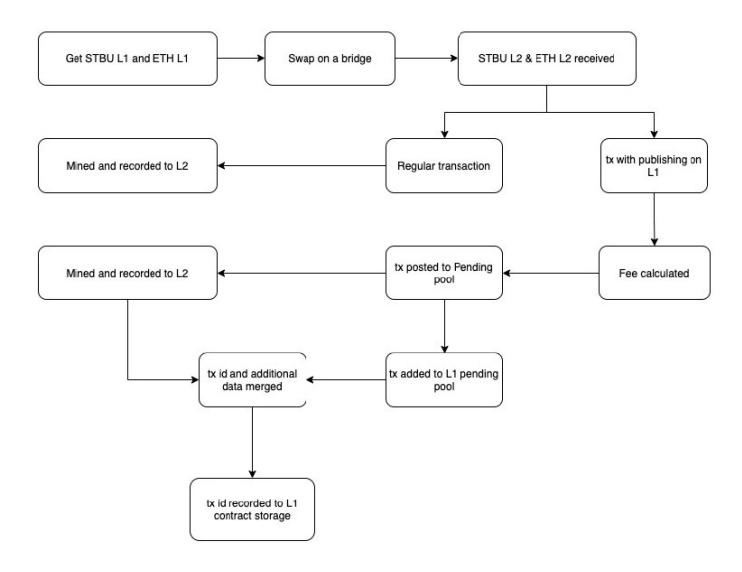
Block confirmation in L1 via L2 smart contract



Tokenomics

- Blocks per day 28800
- Block time 3 seconds
- Average mining per day 4200 STBU
- Initial supply 50 million STBU
- Average L2 network fee
 - For STBU transfer 0.0001 STBU
 - For SRC20 (ERC20 analogue) 0.0005 STBU
- Average price for publication of transaction to L1 0.000025 L2ETH
- L2 Gas price 5 gwei

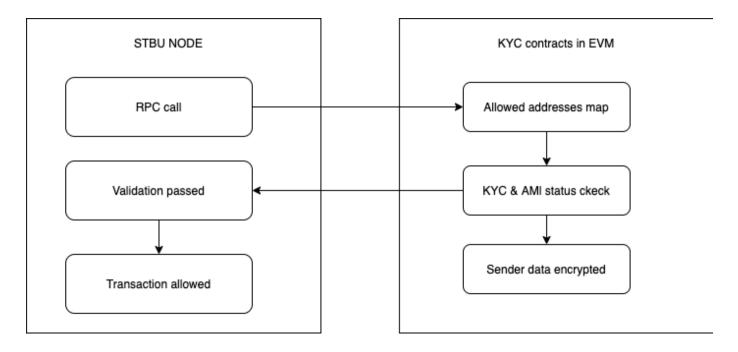
User flow



Permissions, access and control

KYC contracts

- User
- Company
- Nodes whitelist



Roles

- Auditor
- Manager
- User
- Company

Permissions

- ERC20 transfers
- Value based transfers
- Contract deployment
- View public info
- View private info

Auditors' contracts

- Access to private data
- Access to KYC info
- De-anonimising of transactions

Customer contracts

- Tracking and de-anonimising of own company Tracking and de-anonimising of companies he has permission for

Black box and cloud version node configuration

- Local node setup and its verification, with the possibility of all dApps connection to local network
- Connection to whitelisted addresses, one-step setup from Stobox's side

Contract types

- Securities
- Other: swaps, yielding, etc

Rules

- 1. Smart contract deployment is available only to authorized accounts who passed KYC
- 2. To confirm a transaction in L1, additionally, the fee in L2ETH will be paid, in addition to the L1 network fee
- 3. To be a miner, account must have ETH in L1

- 4. Every Stobox's customer will have to deploy and own a node to ensure good level of decentralization5. Minimal stake for becoming a stake holder and miner 100k STBU

Roadmap