Off-chain Payment Channels with arbitration
- Payment channels for secure off-chain transactions - cryptographic signature verification
- Enables exponential growth in transaction processing
- Enables micropayments between accounts
- Third party arbitration for off-chain transactions including micro transactions
- End to end encryption of data
- Private payment channels for increased anonymity on blockchain

Arbitration
In some cases the verification of a transaction depends on some third party information, such as payment for a shipment should be transferred after arrival of the item or a winning bid in a gambling website should be valid just in case the result matches the bid state etc.

Possible use cases
- Pay-per-use Services - wifi, power, digital storage etc.
- Mixed rates business - like hotels which have a mini-bar, room rates, wifi etc.
- Small transactions - vending machines, online gaming etc.
- Third party validations - gambling results, items shipping, rules of use breach etc.

Ethereum Blockchain

Genesis Block
Block
Block
Smart contract
Latest Block

Communication via on-chain transactions request opening or closing of channels by channel owner, appealing for data syncs, activate user protection protocol.

Communication via https protocol to use an active payment channel

Communication via on-chain transactions and events

Holds rules and information about payment channels, have functions for users protection, lives on the blockchain.

Handles off-chain transactions and arbitration of transactions. Handles events triggered on the contract. Handles data syncs with the blockchain.

API

We Do It Better

Off-chain Scaling Solution
Cryptographic Verification
Secured by Blockchain
Users in Funds Control
Arbitration
ERC20 Tokens Support

Technologies

Blockchain
node
ethereum
React
mongoDB