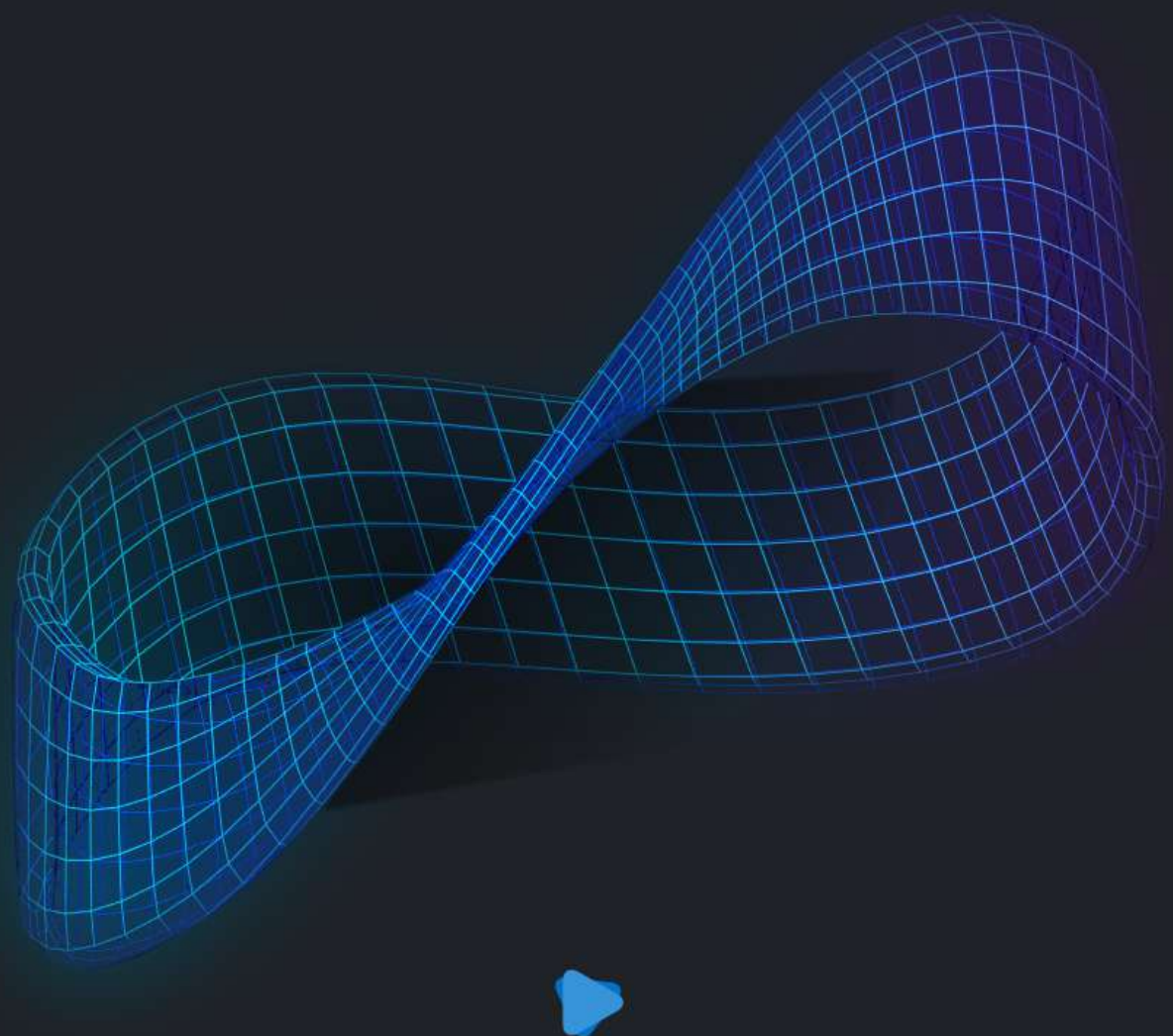
Hashbon Rocket

CROSS-CHAIN DECENTRALIZED EXCHANGE PLATFORM

WhitePaper

Decentralized Token Exchange Between Ethereum and Binance Smart Chain and other EVM-compatible networks



V 1.0 (August, 2021)

Content

Abstract

Hashbon Rocket (rocket.hashbon.com)

Hashbon Rocket is a new generation of DEX. While Uniswap allows you to exchange one ERC-20 token for another ERC-20 token, Hashbon Rocket allows you to exchange any ERC-20 token for any BEP-20 token and vice versa. Thus, we have implemented a true decentralized cross-chain exchange.

Currently our MVP supports exchanges between ERC-20 and BEP-20 tokens, and we plan on adding all EVM-compatible blockchains, including Ethereum Classic, Matic, Fantom, Huobi Eco, xDai etc.

HASH Token is the fuel for Hashbon Rocket as it helps various system participants to utilize our services. For instance, in order to make exchanges, Liquidity Providers (LPs) must pay the Arbiters a commission in HASH Tokens. Arbiters use tokens as an indication of their voting power. And those wishing to issue DeFi bonds or launch a crowdsale will pay for it using HASH Tokens.

True cross-chain decentralized exchange

Swap fairness ensured by the network of Arbiters

Supports EVM-compatible blockchains

Any HASH Token holder can run an Arbiter node

Problem

Recently, the Ethereum blockchain has begun to operate at its bandwidth limit, due to which gas prices have skyrocketed. This made it very expensive for ordinary users and, as a result, caused a rapid growth in the popularity of Binance Smart Chain. This in turn, caused many projects to release new versions of their tokens on the BSC.

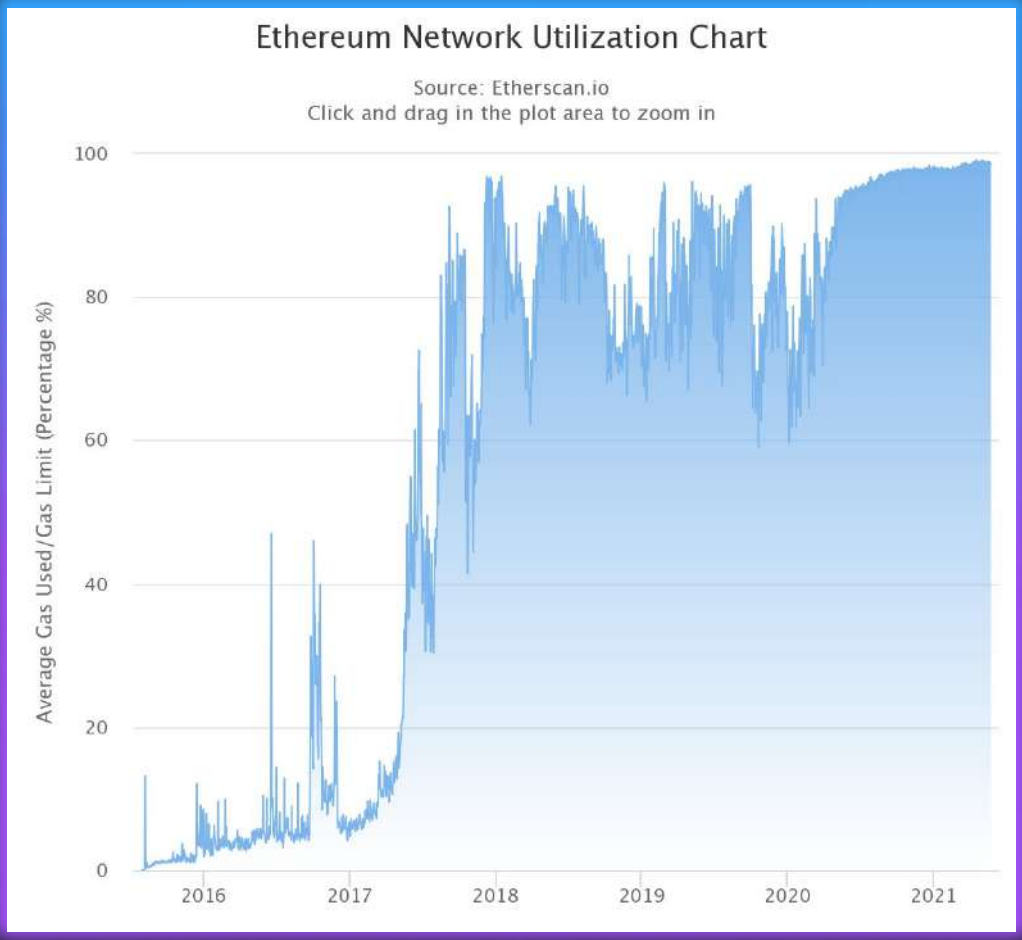
Here is where the problem becomes prominent: Exchanging ERC-20 tokens for the tokens issued in BEP-20 format in a decentralized manner is a tedious process since classic DEXs like Uniswap & PancakeSwap only support exchanges within one blockchain.

Ethereum operates at its maximum throughput capacity. Thus, gas prices have spiked,[1] rendering tokens untransferable for small-capital users.

Binance Smart Chain's popularity has increased dramatically. As a result, many projects have released new versions of their tokens on the BSC.[3]

There is no real way to exchange ERC-20 for BEP-20 and vice versa in a DeFi manner.

1. **The Ethereum Network Utilization Chart shows the average gas used over the gas limit in percentage (98.62%, 25th of May 2021)**[1]

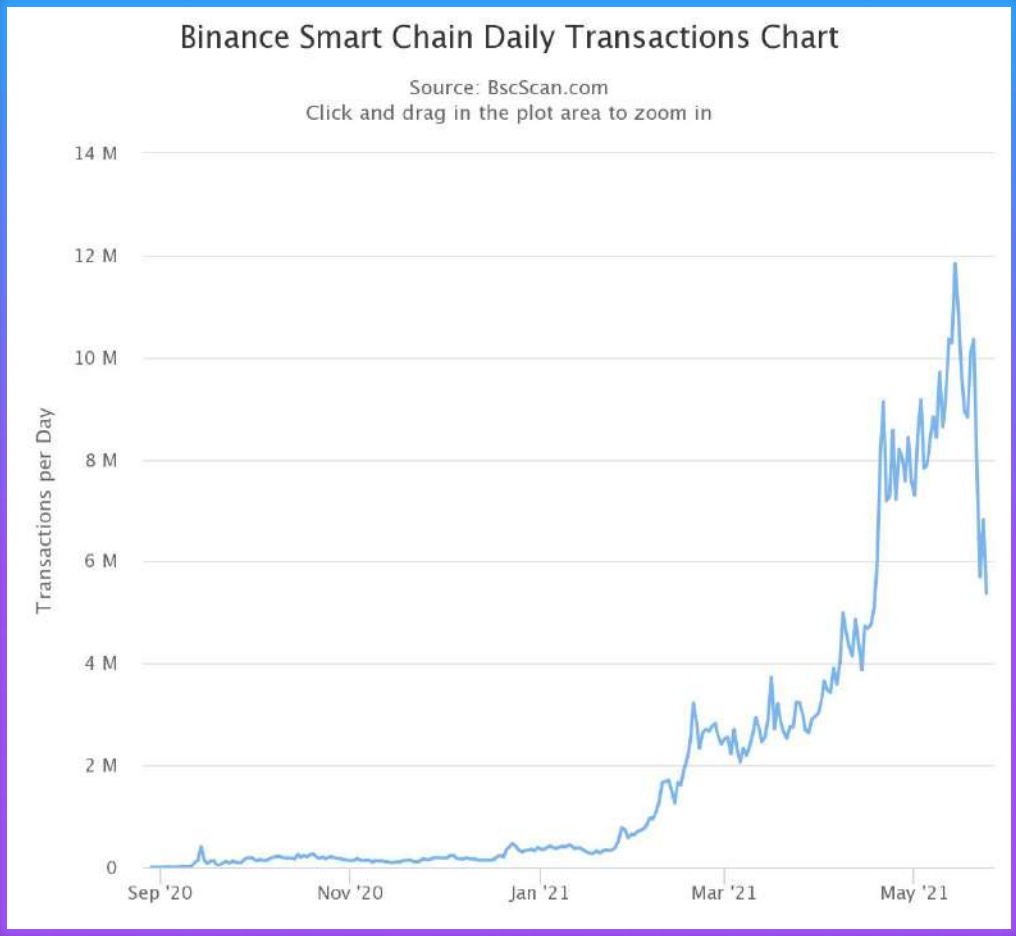


2. **Ethereum Average Gas Price**[2]

[1] https://etherscan.io/chart/networkutilization

[2] https://ycharts.com/indicators/ethereum_average_gas_price

3. Binance Smart Chain Daily Transactions Chart highlights the total number of transactions on the Binance blockchain (25 May 2021) [3]



[3] https://bscscan.com/chart/tx

Solution

Hashbon Rocket:

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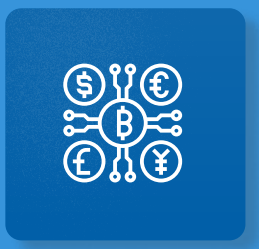
- Decentralized exchange of any ERC-20 token for any BEP-20 token and vice versa
- A decentralized network of Arbiters
- An innovative and state-of-the-art solution for cross-chain swaps

Interaction

What are the processes behind interactions?



Liquidity Provider

A Liquidity Provider uses Hashbon Rocket to set a trading pair, transferring ERC-20 and BEP-20 tokens to smart contracts

Client

A Client transfers tokens to one chain and receives tokens from the other

Arbiters

A network of Arbiters confirms the deal and carries out cross-chain communication

Arbiter

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Anyone is eligible → Runs nodes

Anyone is eligible → Tops up the HASH Token balance

Checks the Transaction execution on two smart contracts on two different chains → Votes using smart contract

Receives a fee → in HASH Tokens

Proof of Stake (PoS)

Hashbon Rocket uses a Proof of Stake consensus mechanism where different Arbiters make decisions and the weight of their decision is based on their HASH Token share. The greater their share is, the more voting power they have and the higher their fee is for a correct response. This also means that conversely, the higher the penalty is for an incorrect one.

Product architecture

Each chain enabling the exchange (for the first product version, these are Ethereum Mainnet and BSC) must have identical CDEX smart contracts. All data on the CDEX operations is stored in a decentralized database as arrays of structures in these contracts, and any transaction is only possible through the use of their methods.

Offer

Contains information on token swap offers, added by exchange services

Order

Contains information on token swap orders, added by clients, each order is linked to an offer

Payment

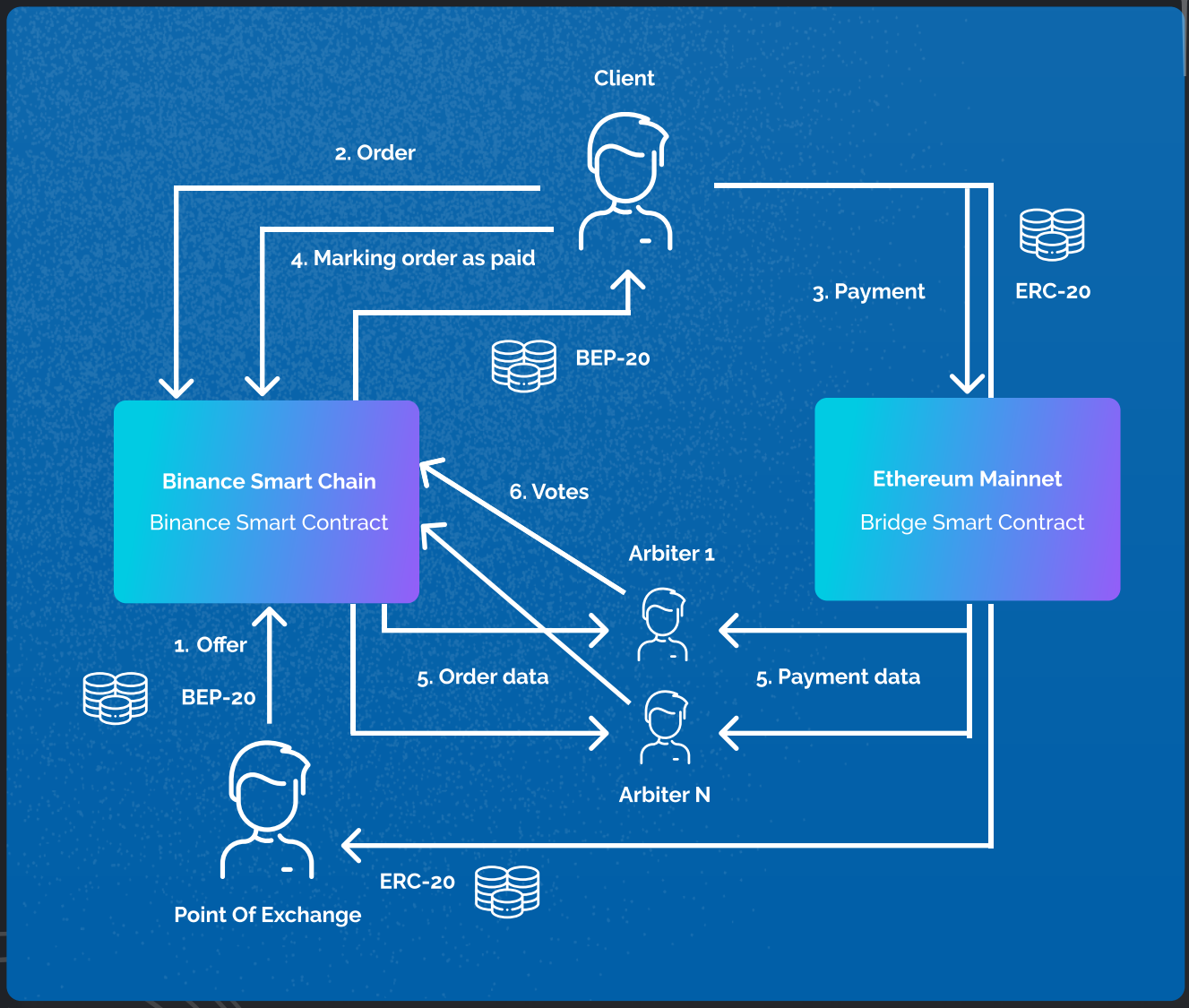
Contains information on order payments: each payment is linked to an order, but they are stored in contracts on different chains (e.g., if the order was created on BSC, the payment should be on Ethereum Mainnet, or vice versa)

Algorithm

(e.g., the client swaps ERC-20 for BEP-20)

1. The Liquidity Provider posts an **Offer** in the contract running on the BSC to swap tokens with set parameters, and the amount of tokens to be exchanged is withdrawn from the exchange service balance and credited to the contract balance
2. The **Client** finds the **Offer** and places the **Order** to purchase the desired amount of tokens, all in the BSC contract
3. The **Client** creates a **Payment** on Ethereum Mainnet, and his tokens are credited to the exchange service account
4. The **Client** flags the **Order** as paid on the BSC
5. The Arbiters compare the **Order** to the corresponding Payment and decide to transfer the purchased tokens to the Client as long as the payment has been successfully made
6. Based on the taken decision, the Arbiters vote on whether or not to transfer the tokens to the **Client**, implementing a method in the BSC contract
7. Once the voting is over, the final voting transaction transfers the tokens to the client

The Algorithm Visualized



Product vision

We created the platform on the basis of DeFi so everyone all over the world has access to fast, user-friendly, reliable and low-cost financial services that will simplify their lives while providing quality of life improvements.

Cross-chain exchanges between EVM-compatible blockchains is just the first step. In the future, we view Hashbon Rocket as a multifunctional DeFi platform that provides the following services:

1. An oracle network can provide information on the shares prices of Tesla, Apple, Google, etc. which will allow the creation of tokenized stocks of these companies.
2. Launchpad is a crowdsale platform that can help attract investments for startups.
3. DeFi lending in the form of issuing DeFi bonds - various companies can issue bonds using smart contracts as well as make payments on them.
4. Staking HASH Tokens through arbiter nodes and third-party projects both can add rewards.

User Experience

Our goal is to make a very clear and simple and functional interface for our DeFi platform. Particular attention is paid to users of mobile devices.

Competitive advantages

Hashbon Rocket presents a unique solution that can only compare to other bridging services in limited ways:

Product	Level of centralization	Implementation specs
Binance Bridge https://www.binance.org/en/bridge	centralized	1. Centralization leads to a limited number of token support (80 tokens as of April 30th, 2021) 2. Adding a new token requires the Binance Bridge's executive approval, which is a complex and time-consuming procedure 3. As with other centralized services, it is trust-based and vulnerable to over-regulation and restrictions imposed by governmental agencies
UniSwap https://uniswap.org/	decentralized	1. Allows for token exchanges only within one blockchain- the Ethereum blockchain
Hashbon **Hashbon Rocket** https://hashbon.com/	decentralized	1. Supports an unlimited number of tokens 2. Direct token swaps on different blockchains while retaining the unique characteristics provided by the token issuer 3. You're completely in control of your assets throughout the entire process

What are HASH Tokens for?

1. Providing liquidity. Liquidity Providers need HASH Tokens to pay commissions in HASH Tokens to Arbiters for conducting transactions.

2. Obtaining the Arbiter role. HASH Tokens are required by Arbiters as they need to purchase HASH Tokens and stake them. The more HASH Tokens an Arbiter has, the greater the power of his decision is and the larger share of the reward he receives from LP.

3. Voting in Hashbon Rocket. Important decisions in our DeFi platform are done by token holders' votes. The voting is free, however, there is a fee to initiate it.

4. Our future services such as Launchpad, DeFi lending (bonds), Staking of third-party tokens will create demand for HASH Tokens. In order to conduct a crowdsale on our platform, you will need HASH Tokens to issue bonds.

Roadmap and strategy

Currently, the product brings together two blockchains: Ethereum and Binance Smart Chain.

Further steps will include adding new EVM-compatible chains: Ethereum Classic, Matic, Fantom, Huobi Eco, xDai, etc.

NOW

- MVP CDEX Beta Release
- Moving to a fully decentralized network of Arbiters

THEN

- Adding new EVM-compatible blockchains
- Adding Oracles functionality and launching various algorithmically tokenized assets: stocks, gold, fiat, etc.

AFTER

- Launch of a crowdsale platform
- Adding the functionality of issuing DeFi bonds
- Staking third-party tokens

Disclaimer

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Thanks for your attention!