Rhenium
POW/POS hybrid cryptocurrency

White paper v1.0

What is Rhenium?

The rhenium network is an open source, primarily proof of stake (POS) cryptocurrency with a focus on decentralization, privacy, speed, sustainability and the community.

Vision

Rhenium's vision is to become a well established and trusted cryptocurrency used worldwide. We aim to increase mainstream adoption of cryptocurrency with innovative ideas and development. We believe the rhenium community will play a huge part in helping this happen.

Who's behind Rhenium?

Rhenium is a group of passionate cryptocurrency individuals with experience in development, branding, marketing and much more. We have been in the crypto-space for a number of years. We will remain Anonymous and allow the project to speak for itself.

Coin Specifications

Coin Name	Rhenium
Ticker	XRH
Algorthm	QUARK
Block time	60 seconds
Difficulty re-targeting	Every block
Masternode Requirement	10,000 coins
Max coin supply (POW)	49,500 coins
Max coin supply (POS)	32,258,830 coins then infinite after block 500,000
Premine	6.19%

Block rewards

Proof of Work (POW) block rewards

Block height	Reward	Masternode	Miner
2-200	250 XMD	80%	20%

Proof of Stake (POS) block rewards

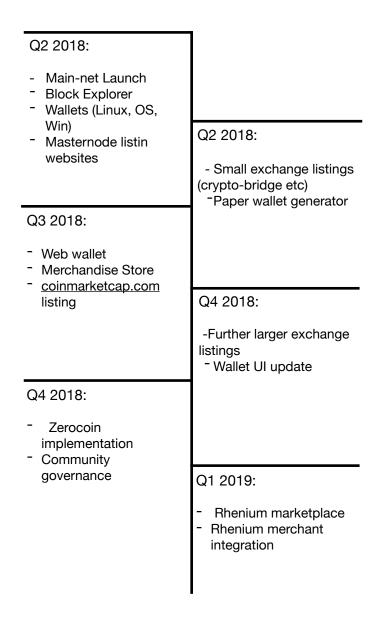| Block height	Reward	Masternode	Staking
201-10,000	200	80%	20%
10,001-50,000	150	80%	20%
50,001-100,000	100	80%	20%
100,001-200,000	75	80%	20%
200,001-300,000	50	80%	20%
300,001-350,000	40	80%	20%
350,001-400,000	30	80%	20%
400,001-450,000	15	80%	20%
450,001-500,000	10	80%	20%
500,001+	5	80%	20%

Why? POS vs POW

Proof of work has long been the go to method for securing a network and the creation of new coins though solving mathematical equations - this however does not come without a large drain on resources (electricity + funds). POW is also more likely to induce hacking attempts than its counterpart POS.

POS was first mentioned in a paper by Sunny Lee & Scott Nadal - with a purpose of curing the huge energy consumption of bitcoin. This then later lead to the creation of Peercoin (the first POS cryptocurrency).

POS does not require miners or large funds to secure its network and hence it is far more efficient in terms of funds and energy used. It requires the user to show ownership of a certain amount of cryptocurrency units. Users are chosen in a pseudo-random method to create the next new block and rewarded accordingly. Praise has been given to POS in recent months with notable cryptocurrencies considering a switch to it.

Roadmap

Rhenium was created upon humble foundations but big ambitions. Our roadmap below will give you an insight into what lies ahead. We welcome any community involvement in the roadmap with ideas moving forward.

Q2 2018:

- Main-net Launch
- Block Explorer
- Wallets (Linux, OS, Win)
- Masternode listin websites

Q2 2018:

- Small exchange listings (crypto-bridge etc)
- Paper wallet generator

Q3 2018:

- Web wallet
- Merchandise Store
- coinmarketcap.com listing

Q4 2018:

- Further larger exchange listings
- Wallet UI update

Q4 2018:

- Zerocoin implementation
- Community governance

Q1 2019:

- Rhenium marketplace
- Rhenium merchant integration

* Roadmap subject to change with community feedback

Zerocoin Protocol

Many believe Bitcoin has one major weakness - privacy. Zerocoin is a cryptographic privacy protocol originally designed for bitcoin however it has since been adopted by several cryptocurrencies. It allows complete anonymity on the blockchain. Privacy has become an ever increasing issue and Zerocoin has addressed this. Zerocoin will be added to Rhenium in Q4 2018, until then Rhenium will enable use the PRIVATE SEND wallet feature. For more information please visit the link in references.

RhenFAST

The RhenFAST built in wallet feature allows users to send almost instant transactions that are broadcasted nearly immediately. This is possible due to the network of masternodes. Rhenium uses the masternode network to allow users to make instant transactions, sending or receiving for fractions of a cent with multiple confirmations in under a second.

Masternodes

Masternodes will be part of Rhenium, these will help secure the network. Collateral needed will be 10,000 coins. Early holders will benefit greatly with increased block rewards and high ROI. Masternodes are a source of passive income and can be set up via a VPS or locally. If you do not hold 10,000 coins you can stake you coins and receive rewards as stated in the rewards table section.

Community

We believe that each cryptocurrency is only as strong was the community around it. This has been proven with bitcoin. Rhenium plans to have a strong community involvement in all areas. Community governance voting will be implemented via the wallet, this will allow the community to decide how the project moves forward and make suggestions via voting.

Conclusion

Rhenium aims to compete with top tier cryptocurrencies, we believe with have the team to do so. As cryptocurrency and the blockchain evolves we feel Proof of Stake will grow at an increasing rate and therefore have chosen to base Rhenium on this.

References

https://peercoin.net/
http://zerocoin.org/