

Pulsar Coin

Whitepaper (Rev. 3/15/22)

www.pulsarcoin.org



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Introduction

As technology advances, the cryptocurrency market follows. Each coin and token has their own unique purpose. Our coin has much to offer to every person, regardless of your knowledge on the topic. With the understanding of this market and the end user, we decided it would be best to develop our own blockchain. Doing this gives Pulsar the ability to take advantage of the benefits using the blockchain technology and apply it to create a balanced economic system for its users.

Our plan is to develop a wallet and a decentralized exchange that will put Pulsar Coin (PLSR) in the forefront of the app. Here, users will have the ability to trade, send and accept the coin at their own leisure. With low transaction fees & quick transaction speeds, it makes it applicable for more regular transactions.

In tandem with that, the app will feature a data collection reward system that **(when approved from each individual consumer)** will collect data information from each user and sell that information to data collection agencies, rewarding the user. This system will return spending power back to the consumers. We want to innovate the blockchain ecosystem as well as inspire innovation.

These first couple of years will focus on growing and stabilizing the blockchain. After our team decides the blockchain is mature enough, our focus will be set on expanding Pulsar's functionality into the wallet and exchange application discussed above.



Our Purpose

Our team founded this company with one main mission in mind: To create large scale and easily accessible use of cryptocurrencies on a regular basis. Being in the United States, we realized our cryptocurrency market is at a disadvantage compared to the rest of the world. Pulsar Coin is our solution. There are a few things to consider in this market that can raise questions in the success of this operation:

Security

This is the most critical step needed to ensure the highest amount of success to the company. A secure and fast network is extremely valuable to our entire operation. This is what protects us and our users from malicious threats. Our system is and will always be tested and monitored to make sure we do what is necessary to keep everyone and their transactions safe. Pulsar is HTTP, HTTPS, TCP, and UDP protected to make sure your transactions and data will always be safe.

Exchange Design & User Experience

The Pulsar Exchange will be built with the newest tools and software to promise the user a sharp, smooth, and easy-to-navigate experience. Most cryptocurrency exchanges you'll find on the internet only use sub-par open-sourced exchange templates that are easily accessible on Github. Exchanges based on these systems are outdated, slow, inefficient, and offer users restricted freedoms. Pulsar Coin is based in the United States of America where competition for cryptocurrency exchanges is low.

Fees & Liquidity

With Pulsar Coin becoming the median of transactions and used as an option to pay for listing fees, Pulsar Coin will always have intrinsic value. Another worry of our operation is the value of the coin we use as our median of transaction. The coin will be used as a method of payment for any available pair within the Pulsar decentralized exchange.



Algorithm

The algorithm that pulsar uses is Curve25519, also known as “Curvehash”. With the algorithm we’ve chosen, the use of CPU mining is still allowed, although slightly more difficult to mine compared to other blockchains. Time-based relative lock-times are measured from the smallest allowed timestamp of the block containing the txout being spent, which is the median time past of the block prior. Curve25519 is a state-of-the-art Diffie-Hellman function suitable for a wide variety of applications. Curve25519 is one of the fastest algorithms used in cryptocurrency. We’ve configured pulsar to where, utilizing Curve25519, it is one of the most stable to mine, using a very small amount of processing energy. This algorithm is used for CPU mining exclusively, which is great because ASIC miners are not environment-friendly & mining via GPU has recently destroyed the market for consumer graphics cards.

Learn more about the Curve25519 algorithm / function : [Implementing Curve25519: Elliptic Curve Cryptography](#)

Consensus : Proof-of-Work & Proof-of-Stake

Currently, blockchain ecosystems are moving from Proof-of-Work reward systems to Proof-of-Stake reward systems. Pulsar is the compromise between both systems, supporting both Proof-of-Work and Proof-of-Stake rewards. Pulsar implements both reward systems into the blockchain allowing for maximum functionality & efficiency while also partially protecting from more common vulnerabilities that full Proof-of-Stake blockchains are weakened by (for example: the 51% attack). Working with the curvehash algorithm, we've carefully designed a coin that can deter methods of mining that harm our surrounding environment such as ASICs. Staking is the easiest and most efficient way to earn PLSR. Mining via CPU can obtain consistent rewards but staking enough PLSR will reward much higher, attempting to discourage proof-of-work mining entirely.

We chose to include a hybrid consensus because we believe this is the most versatile form of reward distribution. We want our audience / community members to understand that they have multiple ways to earn PLSR and they're not trapped with one option that may have unintended consequences on the cryptocurrency ecosystem, as a whole.

Staking

In order to stake, you must have your pulsar wallet running, an active connection, an unlocked but encrypted account, and at least 1 PLSR currently in your wallet. Validators are chosen for each block. You're more likely to be chosen to validate a block with the more non-pending coins you possess.



Coin Voting / Shared Listing

The community holds all the decisions. Pulsar will be used to vote on your favorite cryptocurrency coin or token to be listed on the Pulsar Exchange!

There will be two ways in which voting with your pulsar coins will be essential to the future of the pulsar exchange:

1. You can stake your PLSR in your vote, meaning however many coins that you vote with, you'll receive back once voting ends.
2. You can pay for votes with your PLSR, meaning you will not receive these coins back at the end of the voting period but these coins will have more weight in the consideration of the listing of said coin, as well as covering a portion of said coin's listing.



Tokenomics: Coin Distribution

Pulsar did not have an Initial Coin Offering (ICO) due to the United States rules & regulations. When launching Pulsar Coin, the team decided that we would initially keep 10% of the total supply. We do not plan on selling this currency for our own profit. These premined funds will be treated as though it fiat currency (USD, EUR, GBP, etc.). The Team's supply is "split" into a dedicated marketing, emergency, and project/design budgets, where the Pulsar Team will use the coins strategically.

Coin Name: Pulsar Coin

Ticker: PLSR

Total Supply: 500,000,000 (500 Million PLSR)

Team's premined supply: 50,000,000 (50 Million PLSR | 10%)

Launch Supply: 450,000,000 (450 Million PLSR | 90%)

Block Maturity: 41

Block Time: 75 seconds

Difficulty Time: 2,064 Blocks

Block Reward (POS): 90 PLSR

P2P Port: 5995

RPC Port: 5996

Halving Period: 2,500,000 Blocks (mined via POW) (Est. 5.85 years)

Total POS + POW rewards phase: 202.2 years



Initial Reinvestment Strategy

This reinvestment strategy is in place to ensure our decentralized exchange and its supported cryptocurrencies stay as useful and efficient as possible. Using these profits to better our company ensures positive development and steady growth within our operation. This is a breakdown of how Pulsar Coin profits will be divided and used.

25%

The development team will use 25% of all profits to reinvest in our services. This portion of pulsar coin's profit will be used to steadily expand pulsar coin's functionality, implementation, and the on-going development of the pulsar exchange.

35%

35% of profits will be stored & saved for liquid cash, in case Pulsar Coin would need to handle legal predicaments or large business deals.

40%

The development and marketing team will use 40% of the profit from Pulsar Coin for listing fees (until the Pulsar Exchange is released), marketing campaigns, and advertisements. The sole purpose behind this is to ensure we are creating a strong and trusting community of holders.



Future adaptation

Accessibility

The pulsar team is currently working on hardware wallet support. This will allow for your pulsar coins to be kept safe off of the blockchain network!

Hybrid Centralized / Decentralized Exchange

Why would you choose between a centralized exchange and a decentralized exchange when you could have both? The pulsar exchange will change online cryptocurrency trading for the best. The pulsar exchange will essentially be two divided exchanges linked together. The user will be able to access and interact with larger markets, and eventually fiats through a centralized-based exchange, while newer and smaller coins/tokens will have their own platform.

Payment Processing

There are very small amounts of in-person stores that accept cryptocurrency payment. Every cryptocurrency or finance project releases its own credit card once they're big enough, but why go through the trouble of carrying around an extra credit card when the functionality is easily accessible from your phone? PulsarPay delivers a simple and fast payment experience similar to other major digital tap payment implementations but allows you to pay with your choice of cryptocurrency and PulsarPay will transact funds from your wallet to USD, for the store to accept!

Data Collection

The pulsar coin team has developed a system where the user is rewarded for selling their data, where this data is already sold by entities without the user's knowledge, consent, and/or full agreement. With this system, the user is in complete control of where their data ends up, while at the same time, profiting passively! Once enrolled in our data collection service, the user will have a dashboard where the user decides which of their data is collected by us. The user will also be able to choose what entities will be able to purchase their data and for what reason.

