



Seather: Decentralized, anonymous and secure and  
AGNOSTIC file storage services

**Seather The first blockchain agnostic masternode project**  
**<https://seather.online>**



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# A brief introduction of blockchain and masternode ecosystem

## Introduction to Seather

Seather is offering the solution to centralized file storage, Decentralized file storage. What we see as the issue with centralized storage is that data is being stored in predefined locations with the providers' backend assets all on the same network. The underlying platform needs maintenance and that requires access to your data, there is no guarantee your data won't be compromised. An example: Companies such as Dropbox are growing and for them it gets more complicated to manage the platform since they rely on processes and these take time. Who can say if 'Tim' from hardware support after he left their service, still has access to his account to access the data the minute he leaves the building? Big chance the request to offboard Tim is still waiting for approval or has to be kicked off. Next to the real-world example these companies have many legislation and compliance boundaries, this won't make things any faster, such as the offboarding of Tim.

Blockchain used for financial systems and payments at first, then came smart contracts and decentralized apps (dApps) which run on blockchain.

Now, the next big thing to innovate is the decentralization of file storage.

Seather is offering true decentralized storage using their blockchain to guarantee your privacy and anonymity:

- **Secure file storage**
- **Decentralized**
- **Only you access your data**
- **Anonymous payments via Seather blockchain**
- **No maintenance required**

## Why Do We Need Seather ?

Cryptocurrencies vary based on their technologies , real life uses and their team's vision. For example important part of market cap, NEO, stated its goal as creating a smart economy based on digital assets, digital identity, and smart contracts. In contrast, Stellar, is focused on peer to peer cross-border transactions. EOS is focused on a decentralised application platform and claims to be rival of Ethereum. While all of these sound similar, which they are, this variety in each cryptocurrency's goal is a major contributor to a large number of cryptocurrencies we are seeing today. That being said Seather is offering solution to great problem literally everyone in world needed. Decentralized Data Storage.



## How does Seather work?

Seather utilizes multiple existing blockchain networks to store files it makes Seather agnostic of any blockchain. Why do we need that ? Each kind of blockchain has its pros and cons, offering a broad spectrum of choices depending on how you feel about anonymity vs privacy, openness vs control, speed of transaction approval, and even the environmental impact of how transactions are processed. Dig a little deeper into each individual blockchain, and you'll find further diversity besides choice is always a good thing. But when it comes to piloting or implementing blockchain in a commercial setting, so much choice is actually a much more important. Choosing to work with a single blockchain is risky and we dont want to compromise privacy of our customers. If the evolution of the Internet has taught us nothing else, it's that early stage market leaders can easily be surpassed by later entrants (sorry Yahoo, GeoCities and AltaVista, we now have Google).

With that reasons customers files can optionally be encrypted and decrypted on the any blockchain and users can choice to download the encrypted file still encrypted or simply upload/download non-encrypted files. The encryption methods utilized are AES256-CTR, retention of files during beta is for 1 year. After upload user is given a unique special ID, this ID can be used anytime to pull the file (encrypted or not) from the network of chosen blockchains. Finally this makes Seather first blockchain agnostic masternode project.

## What happens during the upload?

The file is sent to our secure environment, if encryption is selected the file is encrypted. Our environment negotiates with different blockchains and the file will be stored on multiple blockchains to increase redundancy in case of potential congestion of selected blockchains. The same process will apply in reverse for download phase.



## Where is the data stored?

The data may exist on multiple blockchains at the same time. Our broker server translated the unique file ID to the correct blockchain and files being utilized in different chains. We can use most known blockchains such as Bitcoin and Ethereum but recent developments such as the Crypto Kitty game shows that congestion of known blockchains may create disruption for customers in upload/download process. Hence Seather uses less used chains to store customers' data to prevent congestion on process. The blockchains that are used to store data; BCH, STORJ, PEARL, SIA blockchains (we may add more in time) apart from that, we don't want to limit ourselves with blockchain only we may deposit user files to IOTA's tangle as well.

# How does the redundancy work?

Multiple blockchains insure the file is redundant up to the negotiated storage period. During the beta retention is 1 year.

## **A Brief Introduction of Blockchain and Masternode Ecosystem**

Bitcoin was created in 2009 by pseudonymous author Satoshi Nakamoto and is the world's first implementation of blockchain technology. The Bitcoin network is a large global network of computers connected by the internet. Each computer is called a node. When someone send some Bitcoin cryptocurrency the transaction is beamed out to all the nodes. Each node then independently verifies that the transaction was not fraudulent. Every few minutes, all transactions that occurred in that period are bundled together into what is called a block. To fully process the block of transactions and add it to the blockchain, or public ledger of all historic valid transactions, the nodes compete to solve a difficult math problem. The lucky node that arrives at the correct solution first receives a reward of freshly-minted Bitcoin and the block is added to the blockchain.

While Bitcoin was the first cryptocurrency and has been the largest in terms of market capitalization, many alternatives have been released with variations on the core Bitcoin protocol and underlying technology. The alternatives vary in many ways, from purely technological differences to core variations in the cryptocurrency's purpose. One example of a simple technological difference is the total number of coins that exist within a specific currency.

Seather will use masternodes to make their blockchain network decentralized. Masternodes[3] are not standalone but they are always communicating with other nodes on the network to make. Masternodes are often referred in short form as MN.

Some of the functions that these nodes perform are:

- Increasing privacy of transactions
- Doing instant transactions
- Participating in governance and voting
- Enable budgeting and treasury system in cryptos

Just like full nodes in a cryptocurrency, masternodes can be run by anyone. However, there is an entry barrier in place to ensure that the system doesn't get malicious. The entry barrier is what one needs to commit or collateralize certain units of Seather coins to run a masternode. This is done to ensure that a masternode owner doesn't cheat or corrupt the system and the best of doing so is by putting this entry barrier where the masternode operator has something at stake in the whole game.

So naturally, it becomes very less likely that a masternode operator will cheat because he has a stake in running the whole system and even if he chooses to do so he will be punished in the form of devaluation of their own holdings.

# Quark Algorithm



Seather uses the Quark algorithm, Quark is secure and uses a hashing algorithm with 9 rounds of hashing from 6 unique hashing functions (blake, groestl, blue midnight wish, jh, SHA-3, skein). 3 rounds deliver a random hashing function. The multiple hashes give a further layer of security against unknown vulnerabilities that will enter the market down the road.





# Zerocoin Privacy

For payments Seather will guarantee privacy while sending or receiving payments by adding the Zerocoin protocol to their network as per roadmap.

Zerocoin is an opensource protocol which fixes a major weakness that most cryptographic currencies suffer; the lack of privacy. Our goal is to build a cryptographic currency where your neighbors, friends and enemies can't see what and when you bought or how much you paid for it.

The Zerocoin protocol began with collaboration between members and cryptographers at MIT, The Technion, and Tel Aviv University, together they produced a far more efficient protocol that allows for direct private payments to other users of hidden value.

With the Zerocoin protocol, transactions will allow direct anonymous payments between parties. Zerocoin transactions exist alongside the (less-anonymous) Seather currency. Each user can convert (less-anonymous) Seather coins into (anonymous) Seather coins, which we call zSeather. Users can then send those zSeather coins to other users and split or merge the coins they own in any way that preserves the total value. Users can also convert zSeather coins back into Seather coins, though in principle this is not necessary: all transactions can be made in terms of zSeather coins.



## Seather coin specifications

Algorithm	Quark
Security	ZeroCoin
Block Time	60 Seconds
Max Coin Supply	21,000,000 STR
Premine	2,000,000 STR
Block split	85% Masternode / 15% PoS
Node Port	22500
Ticker	STR
Node requirement	10000 STR

## Premine distribution

From the start the team has been transparent, by presenting the premimed funds on Seather blockchain explorer. The Premine will only be used for the accessibility of the Seather cryptocurrency, current balance will be used for future exchanges, marketing, bounties & team

2,000,000 STR	Total Premine
300,000 STR	Pre-sale, 30 masternodes
300,000 STR	Development
250,000 STR	Marketing / Bounties / Airdrops
450,000 STR	Team
700,000 STR	Current Balance



## Incentive

For running Seather masternode(s) or by holding coins in your Seather client you will be able to receive an incentive. The Seather Cryptographic currency is focused on Proof of Stake (PoS), which rewards incentives to its holders.

Phase	Block Height	Reward	Masternode	Staking	PoW
Phase 1	1	2.000.000 STR			
Phase 2	2 - 200	100 STR			100%
Phase 3	201 - 50000	30 STR	85%	15%	
Phase 4	50001 - 100000	25 STR	85%	15%	
Phase 5	100000 - 1050000	10 STR	85%	15%	
Phase 6	1050000 – max supply	5 STR	85%	15%	

# Roadmap



## Q3 2018

- Exchange listing Seather
- Website update
- Whitepaper draft

## Q4 2018

- Alpha platform for Decentralized File Storage
- Android Wallet
- iOS Wallet
- Extensive promotion campaign
- Higher volume exchange listing Seather

## Q1 2019

- Alliances with service providers to use Seather
- Implementation of Zerocoin
- Web wallet
- Web API
- Widget integration for websites

## Q2 2019

- Seather: Decentralized governance model
- Seather, Console: Beta platform or Decentralized File Storage

## Conclusion

Seather will bring the world decentralized file storage with untraceable anonymous and secure payments, a sustainable use case with an infinite view towards the future.

