



Synchrontron

www.synchrontroncoin.org

A Crypto payment solution

White Paper

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ABSTRACT

Blockchain technology is one which is intended to be the transaction medium of the future. While the pioneer crypto currency 'Bitcoin', went some way in bringing the crypto currency concept into main stream online communities, it has not been able to address some of the fundamental concerns associable with blockchain technology.

Synchrotron is intended to bridge the gap between digital and blockchain based payment solutions, staying true to the concept of financial freedom and accessibility for all.

KEY TERMS

Synchrotron, Script, Blockchain, Proof-of-Stake, Proof-of-Work, PoS 3.0, Cryptocurrency, payment solution.





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INTRODUCTION

Built upon Bitcoin and subsequently Blackcoin's codebase, Synchrotron Coin's inception is borne out of the concept of accessibility and decentralisation. Synchrotron is a free launch community crypto currency intended for mass adoption.

Synchrotron aim's to achieve two main goals:

- Stay true to the intended concept of crypto currencies as a 'payment method' rather than a store of value. We aim to be a fully functional and accessible blockchain backed payment method of mass adoption.
- Strive to become a real option for merchants and 'new to crypto' business platforms by engaging in collaborative work with businesses right from their inception.



CRYPTO CURRENCY SHORT-COMINGS

Blockchain technology and crypto currencies have come a long way since the creation of Bitcoin. Unfortunately it appears as though the initial concept of an alternative to fiat currency, one which seeks to change and shift the balance of power has been lost. To name a few, some of the problems blockchain technology faces today, remains the same problems that have been known for some time, such as volatility, Governmental and corporation resistance and scalability etc.

It is widely accepted in and amongst crypto currency experts that should these problems be addressed, it will go quite some way to alleviate the concerns of businesses, corporations, perhaps governments and the wider 'non crypto verse' public, which is necessary for mass adoption.

What we have at the moment appears to be the opposite of the intended use case of crypto currencies. A secure, fast, cheap, reliable real alternative to fiat is what crypto currencies should be. However, many currencies (Bitcoin in particular) are regarded as a store of value today. While from an individual crypto holder's perspective, this is not necessarily a bad thing, for crypto currencies in general, this state of play directly contradicts the intended purpose.

Until such time that there are crypto currencies which can be used in regular, day-to-day transactions by tech & non-tech savvy people alike, crypto currencies will not be seen a truly viable alternative currency to fiat.

WHY CHANGE IS NECESSARY

The perception of crypto currencies primarily as assets or store of value is an existential concern which makes the need for change a vitally important and necessary step for crypto communities. It is important for crypto currencies to retrace the initial concept of being a real payment solution as direct alternative to other digital and fiat payment methods. Should crypto fail to achieve this, the risk is that the 'bubble' notion might go on to become an unshakeable one which may ultimately lead to the demise of crypto currencies altogether.

It is necessary for us as crypto adopters and developers to ensure that we continue to exhibit and improve upon the idea of security, transparency and



accessibility in order to attract investors and help to provide real solutions for business and personal users.

Equally important is that we ensure in no uncertain terms, that those who are new to crypto currencies do not fail to see the benefits of blockchain technology.

THE SOLUTION

It is widely accepted that there are no easy solutions to much of the issues raised about the state of crypto currencies today. However, there are steps that can be taken to address these issues which consequently can improve the perception and adoption levels of crypto currencies by current sceptics. At the forefront of these ideas is the wider crypto community member's, the everyday user who is a stakeholder therefore passionate about crypto. It is, essentially at such level that the narrative of crypto currencies can be determined, changed and improved upon.

SYNCHROTRON COIN

Synchrotron Coin is a hybrid proof-of-work and proof-of-stake decentralised, peer-to-peer crypto currency payment solution. With a stand-alone financial technology team due to start work on our signature payment platform, Synchrotron coin aims to avail users with an efficient, reliable, fast and secure alternative payment method with seamless integration with personal, e-commerce and business platforms.

The choice of the name 'Synchrotron' is to affirm our belief in secure, reliable and most importantly instantaneously speedy transactions. By definition, a Synchrotron is a cyclic particular accelerator which is used for accelerating nuclear particles and atoms like the hydrogen atom. For example when a positron and an antiproton come together in this high speed, it generates anti hydrogen. We want to offer high speed transactions to support fast moving business and user demands of a true crypto currency payment method.

Synchrotron Coins offer users extremely quick transactions with instant confirmation of transactions as a result of hybrid Proof of Work & Proof of Stake blockchain technology. Staying true to the spirit of decentralization,



Synchrotron is an open source global payment solution with zero dependencies on centralised or established fiat related governance or authorities.

There are six fundamental factors which contribute to the ethos of Synchrotron coin. These are Community, Blockchain, low energy consumption (eco friendly), simple to use, accessible and fast. Each one of the six factors is equally important to the Synchrotron ecosystem.





Transactions through our network attract extremely low, insignificant fees to anyone/anywhere across the globe. With mobile, web, on-the-go access, Synchrotron coin network makes accessibility its number one priority, with full user (individual or business) control of financial decisions and functions.

Synchrotron Coin intends to deliver it's variety of payment solution use case in a multi faceted approach with particular emphasis on the following:

Mass Adoption

Mass adoption is perhaps the most important point fundamentally in order for any crypto currency to become a true fiat alternative. In order for Synchrotron to enable a change in perception and usability, it is therefore vitally crucial that Synchrotron user base must include members who are similarly inclined to want to see crypto currency payments as a regular, easy-to-use payment option rather than a store of value or investment asset only. To this end, we will launch Synchrotron coin into distribution via airdrops, bounties and reward systems which will help us to build a resilient and supportive community of Synchrotron coin advocates.

We recognise that it is important that we have a solid technical foundation and innovative working partnerships but equally, without a strong community of enthusiastic supporters, technology on its own can be meaningless.

Mass adoption therefore is the first part of the process because it also serves as the main marketing strategy. The wider the network of users with access to Synchrotron coin, the higher the potential and demand for business to integrate and implement acceptance.

Merchant integration

Merchant integration is a crucial step in the Synchrotron payment ecosystem. Support by businesses is absolutely necessary in order for users to have the medium to be able to pay for services using our payment network. To attract and ensure businesses chose our payment network, we will form partnerships with innovative businesses that are similarly inclined to us and share the same ambition of seeing a main stream crypto currency payment that is user friendly and acceptable in millions of outlets.



For this purpose, the Synchrontron project will expand. It is expected that ecommerce experts, financial advisors and developers will form our Fintech team which will be dedicated solely to investigating business requirements and providing solutions that are suitably built upon our multi layer payment ecosystem.

Introducing SYNCHROPay™

The Synchrontron payment ecosystem is enhanced by the introduction and implementation of SYNCHROPay™. SYNCHROPay™ is Synchrontron signature payment solution which provides an application with user and merchant end integration to facilitate effortless payments. Using bespoke software and hardware, SYNCHROPay™ will offer personal users and businesses the ability to seamlessly pay or accept STC for everyday purchases.



Working in partnership with a technology start-up company (subject to conditions), we aim to launch this technology with an exclusive preferred option with a retail outlet based in Europe. For the moment, this is a time sensitive development for which we are (contractually) unable to divulge extensive information. We expect to release further information about this innovative partnership in due course.



Furthermore, it is our objective to create integrations which are compatible with major ecommerce platforms in order for them to be able to accept STC as an alternative payment method. Such integration will further enhance and reaffirm our aim to remove any kind of restrictions which other currencies might have in place in becoming a successful payment option.

We aim to have Synchrontron plugins in the near future fully ready for integration with establishments such as Shopify, Woocommerce and Opencart, to name a few.

The Synchrontron solution is one which will offer businesses many benefits such as secure, cheap, electronic, simple and convenient payments.

ARCHITECTURE

The concept of blockchain technology and crypto currencies (Bitcoin) in particular is one which is aimed at addressing and attempting at least to replace the existing financial systems which are largely based on 'trust'. As an alternative payment method seeking to be used widely, it is important to from Synchrontron to ensure at all times, a reliable, trusted and stable blockchain to support transactions.

To achieve consensus in Synchrontron processes and transactions, Synchrontron uses the following protocols:

Proof-of-Work (PoW)

Proof of Work technique is an essential protocol in attempts to secure decentralised networks. In PoW, considerably high computational power are required in order for miners to be able to confirm transactions, confirm block validity and to secure against the potential for double spending of coins.

In proof of work, each block is found with the computational capacity of machines which seek to solve the problem of its block and if the hash is found, a specific reward will be given to the finder of the specific block, in the case of a lone or solo miner as popularly referred to.



In a mining pool, which is a collection of miners bringing together their hashing power to a central point, the reward will be split to all miners in dependency of their respective hashing power.

Synchrotron adopts the scrypt mining algorithm introduced from Litecoin. Scrypt algorithm allows mining from CPU, GPU and Asics, availing mining to many groups of miners irrespective of the available hashing power or hardware.

Proof-of-Stake (PoS)

Proof of stake is another technique whereby blocks are found through a concept of wealth and consensus algorithm. This collection of techniques avails the capability for a staking wallet without the expensive mining hardware which is necessary in proof of work hashing capacity.

Proof of Stake is instrumental to an extent in discouraging the idea or intention of certain entities to attempt to take advantage of the blockchain because Proof of Stake secures the blockchain with the consensus algorithm. To illustrate, if there are more network nodes staking, the consensus is higher and consequently, the security with it. PoS offer a cheap and eco friendly way of maintaining and securing the block chain.

PoS rewards will be distributed to all participants in an order that is calculated through the weight of the stakers and the duration of the staking process. It should be noted that in 51% attacks there is also a difference between PoW and PoS. Where in PoW, a 51% attacker requires the majority of the available hashing power, in PoS he needs the majority of all coins in the network wealth to achieve this. Therefore, there is an added advantage to the PoS structure adoption.

Hybrid PoW + PoS

By adopting a hybrid structure which implements functions of both PoW and PoS, Synchrotron essentially integrates best of both techniques. In the hybrid system, Synchrotron combines all of the features of PoW and PoS together for a more sustainable and scalable blockchain.



In simple terms, blocks are mixed so there are some blocks calculated by PoW and some via PoS. This structure helps to improve and enhance the security in the blockchain. This is particularly so in the beginning of the blockchain where there are not so many entities involved in the process to prevent 51% attacks. In due course, the higher Synchrotron coins circulation and value increases, the higher the hashing difficulty therefore PoS rewards take precedence over PoW rewards.

PoS 3.0

Synchrotron Coin adopts PoS 3.0 algorithm. PoS 3.0 is an improvement to the standardised PoS protocol which offers random rewards based primarily on time and weight which is determined by balance and other factors.

With PoS 3.0 there is a fixed reward structure of 4.5 STC/ Block for the finder. In simple terms, the reward will be distributed to the node with highest coin age which is more reliable than the old technology and prevent double-spend-attacks. The fixed reward is also instrumental in keeping the APR which is 10% per year. The percentage APR is calculated through the start-supply of 25M STC, so in the first year there will be additional 2,5Million STC added to the supply through pos rewards and in subsequent years there is a decrease in the APR every year which will decrease the inflation of STC to facilitate and maintain value of the currency.

LAUNCH WALLETS

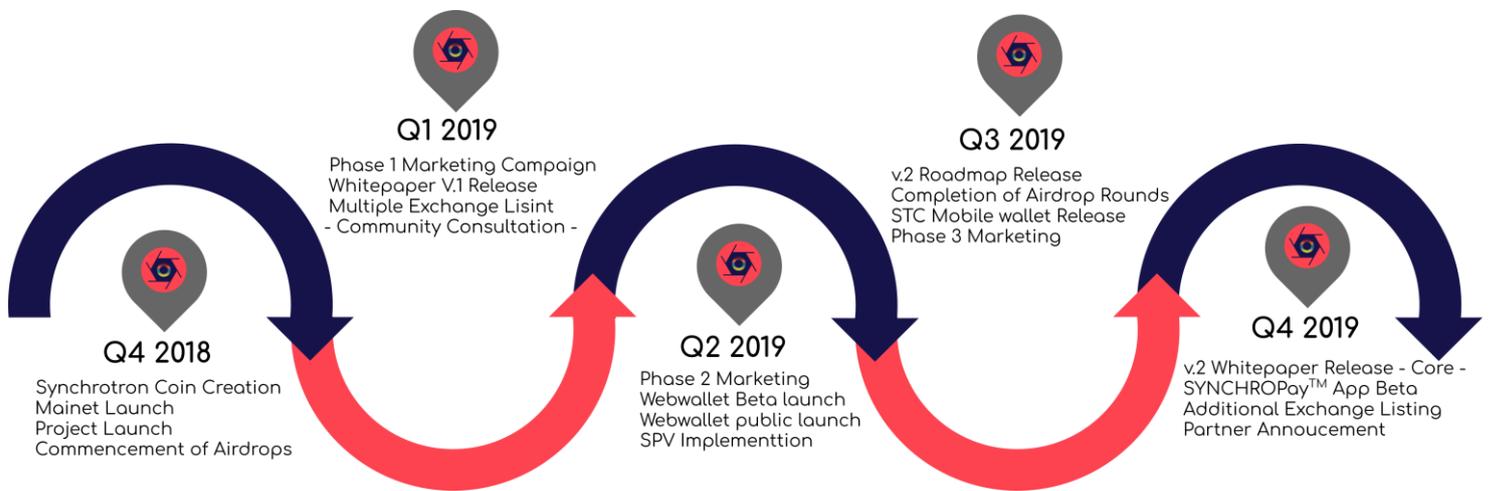
Based on QT style wallet, Synchrotron wallets are available on several platforms including macOS, Windows and Linux. Synchrotron wallets offer easy-on-the-eye, clean and simple user interface with an array of features. The wallet source code is available on the official Synchrotron GitHub for user perusal, audit and authentication.

Wallet resources are also available for individuals who may wish to build their own wallets.



ROADMAP

Synchrotron Coins roadmap outlines some of the immediate milestones which we aim to achieve. These milestones include technical, marketing and blockchain related features. We fully expect that many of the objectives outlines in this roadmap will be brought forward to early implementation.





LAUNCH SPECIFICATIONS

Name: Synchrotron

Ticker: STC

Max Supply: 35 Million STC - Pre-mine: 25,060,000 STC

PRE-MINE DISTRIBUTION

Airdrop: 18,000,000 - 72%

Project funds: 2,560,000 - 10%

Development team: 3,000,000 - 12%

Marketing: 1,000,000 - 4%

BOUNTY: 500,000 - 2%

PoW/PoS Hybrid

Algorithm: Scrypt

Difficulty retarget: every block

Address letter: s

Block time: 1min

min stake age: 1h

RPC-Port: 22222 Port: 7655

Basic transaction fee: 0.001 STC

POS REWARD STRUCTURE

10% annually POS Reward with 4.5 STC/ POS-Block

POW REWARD STRUCTURE

Block 0-1000 5 STC

Blocks 1001-10000 2.5 STC

Blocks 10K-100k - 1.5 STC



RESOURCE LIST

Wallet downloads: <https://github.com/SynchrotronCoinDev/SynchrotronCoin/releases>

Block explorer: <http://explorer.synchrotroncoin.org/>

Website: <https://synchrotroncoin.org/>

Telegram group: <https://t.me/OfficialSynchrotron>

BitcoinTalk Forum ANN: <https://bitcointalk.org/index.php?topic=5083222.0>

GitHub: <https://github.com/SynchrotronCoinDev/SynchrotronCoin>

Twitter: <https://twitter.com/SynchrotronCoin>

Medium: <https://medium.com/@SynchrotronCoin>

Discord: <https://discord.gg/4twu5Rn>

Web wallet: <https://webwallet.synchrotroncoin.org/>