



Zebec

ZEBEC WHITEPAPER

Abstract

A DeFi technology that embraces more control over one's own earnings through a continuous settlement protocol can revolutionize how we see financial transactions today. Based on Solana, Zebec's continuous settlement protocol, designed to operate real-time streams of money in a fast, hassle-free, and automatic manner empowers employers and employees alike to reimagine how they are paid, how they invest, and how they buy products or services. Traditional financial systems are ridden with third parties that bring ridiculous priced transaction fees upon even simple services such as transfers and withdrawals. Zebec's continuous settlements are aimed to reduce these third-party interference transaction fees by a large margin, with minimum transaction fees and the fastest gateway for payments. These per second payments mean paying for services that users like and stopping when the service is no longer needed. The receiver also has control over their earnings, making use of the payments being made every second. Zebec's continuous settlement does what the traditional financial systems currently cannot, to the second payments in the fastest, most secure, and cheapest way possible. This mode of payments paves way for crypto payroll systems, made less risky with Dollar-Cost Averaging services. Businesses and employers do not have to fear the high volatility of cryptos and token usage also promotes high liquidity to limit the slippages. Services like saving in Crypto IRAs and 401k accounts mean returns in retirement will be much higher than expected. The future of financial systems are payments made to the second, where both senders and receivers have full control over the payments.

Introduction

Centralized institutions and concentrated powers hold the foundation of traditional financial systems. These systems run on intermediaries such as banks to make transactions, unfortunately, often making transactions tedious with one-time movements and delays. Such transactions also come with multiple hefty transaction fees. However, the time for a revolution in the current financial situation has risen. There is a dire need for a systematized effort to make transactions faster, continuous, and more secure.

Rising to the occasion, Zebec has come up with a DeFi technology aimed to eliminate the hassles of the current payment methods and bring forth real-time continuous streams of payments. What sets Zebec apart is its ability to make not only employers but also employees reimagine payments, investments, and buying products or services. Zebec's unique protocol is built on the Solana blockchain which allows money to be sent up to the second in a continuous and instantaneous stream. Consequently, transaction fees get reduced by a large margin, making it both cost-effective and without any intermediaries.

Imagine an employer paying twenty of their employees by the second front from the start date to the finish date. If the employer is not happy with the employee's performance, they can stop the payment at any time. In turn, employees can fully utilize the payments they have been receiving up until the moment. Employees no longer have to wait for the end of the week or months to get paid. The idea remains especially handy when an employee requires money that is not near enough for their payment dates. Transactions are thus direct and instant at every step. The minimal amount of transaction fees is advantageous for both the employer and the employees. The system retains the capability to stream money by the second, making way for one of the most advanced forms of payroll systems.

Zebec is derived from the Arabic term ‘xebec’ or ‘shabbak’ signifying a small yet fast vessel used for trading in the Mediterranean sea from the seventeenth to the nineteenth century. In the twenty-first century, Zebec sails along with Solana (coincidentally derived from the Latin word meaning “wind from the east”).

Continuous Settlement

Traditional financial settlements conducted through third-party intermediaries take days to process and are often very expensive. These middlemen institutions also profit by delaying transactions and making more than \$1.3 billion in interest each year just on the money they hold on their balance sheets while settlements are being processed. The continuous settlement, also known as streaming, conducts the transactions in one flow, without interruptions. Continuous settlement can be used by any customer or business to set up and program streams of money. Additionally, the cash streams through Zebec can easily be reprogrammed or stopped.

As the continuous settlement protocol is based on the Solana blockchain, all transactions are irreversible, secure, and transparent. Zebec is launching on Solana because it is the fastest and most-scalable blockchain that can power up to 50,000 transactions per second for massively lower fees compared to the Ethereum blockchain. Upon reducing the transaction cost to a fraction of a cent, even setting up the protocol considers minimal fees. Thus, such continuous settlements are massively cheaper, talking in terms of paying hundreds of employees, by the second. On the other hand, employees have complete control over their pays, able to withdraw when required.

The continuous settlement also enriches the receiver's interest. If an account earns 6% interest compounded continuously, with \$20,000 in 5 years times, the value would be \$4,630 per year.

With Zebec's continuous settlement protocol, Zebec Payroll came into existence. The protocol was utilized to bring a continuous stream of money from one Phantom wallet to another (for example, from an employer to employee). The process of the continuous settlement protocol on payroll is as follows:

a) Per Second Payment

Users connect to Phantom wallet where they must have at least 50 Sol to start the payments. The user then initializes the payment by entering the recipient's wallet address, selecting the date and time.

b) Receiving Payment

For the receiver to receive payment, the user must give their Phantom wallet address. The stream of money can be viewed from Zebec's dashboard.

c) Pausing & Resuming

The sender can pause and resume the stream of money at any time.

d) Canceling a Payment

Both the receiver and sender can cancel the payment at any time if a dispute arises. Assuming the sender canceled Zebec after 31 days on Sep 30, 2021, at 17:00, the receiver will receive 39.17 Sol (31 days & 8 hours of work) and Zebec will have finished the stream.

e) Withdrawing Payment

The receiver can withdraw from any ongoing payments. Assuming Zebec is still in progress but the receiver wants to withdraw on Sep 06, 2021; 9:00, they will be able to withdraw 8.75 Sol on Sep 06, 2021, at 9:00. Once Zebec is completed, the receiver will be able to withdraw the whole amount i.e 50 Sol. If Zebec is canceled, the receiver will be able to withdraw the amount that has been streamed up to the canceled date.

Crypto Payroll

With the rise in crypto trading, paying employees in crypto is becoming popular by the minute. From integrating bitcoin to Square to introducing crypto payroll in Twitter via Strike, Jack Dorsey already has balance sheets worth \$350 million based on BTC prices.

In line with the growing love for Zebec's continuous streaming protocol also offers crypto payroll, where employers can pay their employees in crypto. Crypto payrolls are extremely effective in businesses with remote employees, the crypto payment working as payment without borders. With crypto, payroll comes the absence of hassles of cross-border money transfers. Even for domestic workers, crypto payments can be used to directly invest in crypto assets. With the increase in usage of digital currency, such payments can be monumental for employees to start their crypto portfolio and increase access to revolutionary financial technology.

Dollar-Cost Averaging

Zebec is the only real-time, by-the-second dollar-cost averaging investing mechanism available anywhere. Users can automatically convert a percentage of their paycheck into top cryptocurrencies. As of today, cryptocurrencies are the best ways to invest in crypto assets. However, crypto itself is a highly volatile bet. The May 2021 crash showed a 70-80% decrease overnight. For businesses worried about the high volatility of crypto, dollar-cost averaging can reduce risks involved in crypto investments and make them highly profitable. A \$100 per month investment on established cryptocurrencies can yield higher returns than the S&P 500. The automated dollar-cost averaging also enables users to invest small amounts yet receive higher returns in the long run, with the advantage of fewer risks.

Crypto IRA & 401k Accounts

Having crypto investments during retirement substantially one's investment portfolio and increases the chances for higher returns. The Retirement Industry Trust Association (RITA) estimates 2-5% of the IRAs get invested in alternate assets like crypto. Employees can easily allocate a portion of their paycheck to compliant crypto IRA & 401k accounts. With the rise in profit-sharing plans, 401(k) providers ForUsAll and Coinbase are working towards making participant employees able to hold 5% of their assets in crypto. One of the biggest obstacles to crypto investment is the lack of tax benefits. Crypto IRAs not only bring diversity to the investor's portfolio but also bring several tax advantages. With crypto 401K and Self-Directed IRA, it will open up access to more traditional forms of tax benefits for crypto investors.

Free Fiat Off-Ramp

Crypto-fiat gateways make the best ways to gradually transform from a traditional to a crypto-based economy. Users can swap their cryptocurrencies into USD and transfer their money to their regular bank accounts without paying a fee with free fiat off-ramp services under the Zebec Protocol. Along with no bank transfer fees or service fees, the service fetches the best market price as well.

Problem Statement

The current financial makeup cannot uphold a convenient cash flow. With the insertion of third parties such as banks and other middlemen institutions take up a humongous amount of transaction fees upon each “sending” and “withdrawing” transaction. This makes each transaction costly, and the reversibility keeps the sender at worry if the transaction has been completed. Even with crypto payrolls, businesses worry about the high volatility of cryptocurrencies and their inability to be efficiently changed into fiat currencies. Additionally, the low liquidity also shows profound slippage.

Our Solution

The solution to the problem of higher transaction fees is Zebec’s DeFi technology that brings forth real-time continuous streams of payments. The continuous streaming protocol reduces the transaction fees, only taking such fees during the moment of “withdrawal”. The streams of payment from an employer to employee cut down the down and hassles for an employee to access and use their money at any time.

The continuous settlement protocol also allows higher liquidity of the streams of cash, enriching the token productivity upon mass adoption. This scenario pays off well in employers’ wanting a safe, easy, and relatively cheaper payroll system, also allowing for other services such as crypto payroll. Employees can easily allocate a portion of their paycheck to compliant crypto IRA & 401k accounts. Their retirement plans will have a diversified set of portfolios as well as opportunities for much higher returns. The higher liquidity also paves way for Free Fiat Off-Ramp services where users can swap their cryptocurrencies into USD and transfer their money to their regular bank accounts without paying a fee. Such high liquidity also decreases the chances of slippage in DeFis that businesses often fear. The crypto payroll allows employees to invest in real crypto assets. Despite the volatility of the crypto market, the dollar-cost averaging reduces the risk of crypto investing and invites higher returns from even small investments.

Additionally, Zebec’s continuous stream protocol enables stream-based payment integration in Dapps. This protocol can be used in various streaming services such as music streaming apps. For example, instead of paying for each song, users can pay for the songs while they listen to and cancel whenever they are done listening. The process is simple and even creates a direct earning for the artists themselves.

Token Economics

Total Token Supply - 10b

1. Private Investors - 2b (20%)
2. Public Sale - 500m (5%)
3. Team & Advisors - 2b (20%)
4. Market Making - 500m (5%)
5. Community Rewards - 5b (50%)

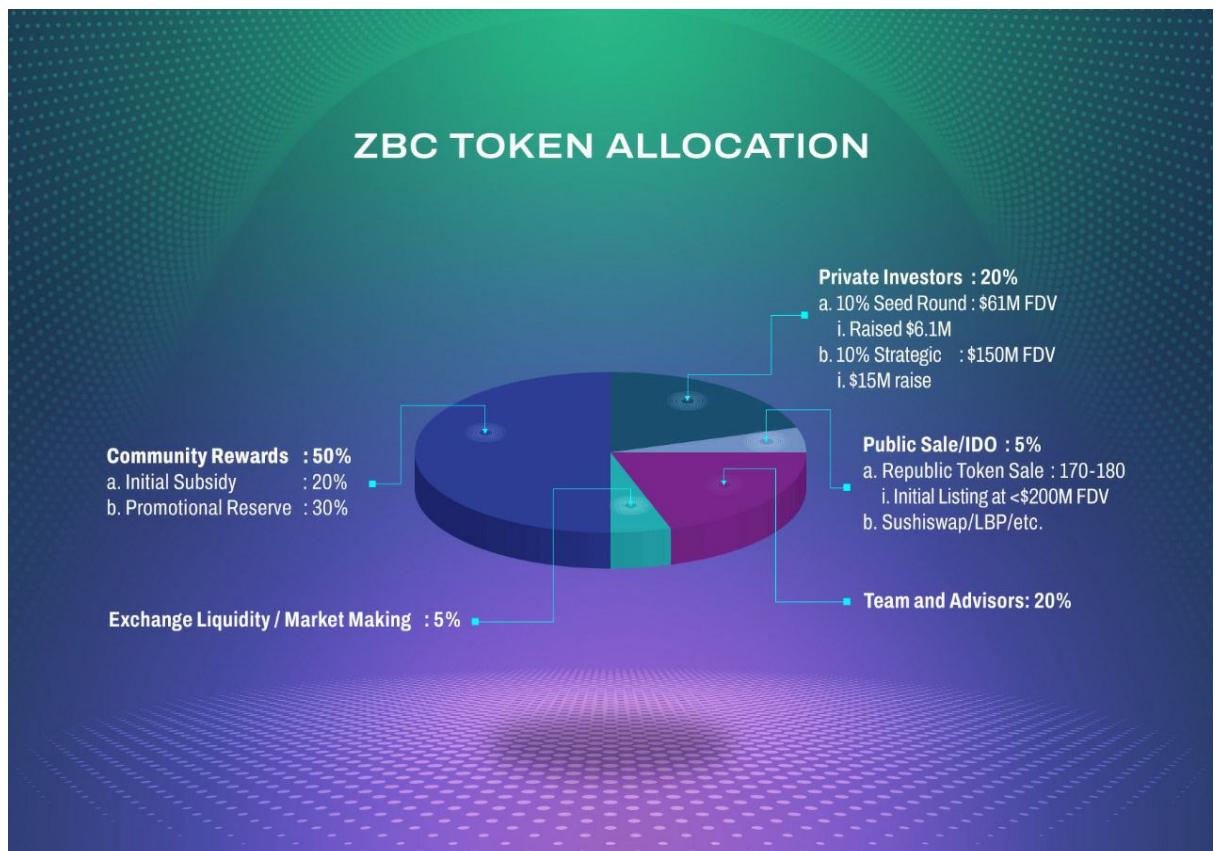


Fig 1: Token Allocation Chart



Fig 2: Token Emission Schedule



Fig 3: Token Utility Chart

Conclusion

It's time for decentralized financial systems to revolutionize the current traditional settings. Zebec was created to allow the reimagination of payments and investments by employers, employees, businesses, and institutions. The low-cost Zebec continuous settlement protocol aims to eliminate the need for third parties in transactions, making payments instantaneous and continuous. Zebec strives to create a financial environment where users have direct access to their money and do not need to wait to make use of it. With the growing popularity of crypto, the crypto payroll will also enable users to invest in crypto assets, which ultimately increases token productivity. With the backing of sound dollar-cost averaging, users do not need to worry about high crypto volatility and only invest some of their pays to get higher returns. Thus, Zebec's continuous settlement protocol is a necessity of today, for a convenient financial system of tomorrow.