

CANDYLAD

WHITE PAPERS

V2.0



CANDYLAD WHITE PAPER

CONTENTS

I .Introduction

II. Market analysis

1. Tokens and Charity
2. Passe-through and Assistance

III. Project Concept

1. Project overview
2. Candylad concept
3. The cornerstone of Candylad
 - Development capabilities at the engineering level
 - Complex core business logic
 - First-line cooperation in the industry
 - Global market starts synchronously
 - Industry-leading trends
 - Global commercial applications
 - Candylad model innovation
 - Increasing transparency and disclosure of the organization
 - Implementation of multifaceted social supervision
 - Protect privacy
 - Effectively prevent the negative effects of hacker attacks
 - Safety performance
 - Mobilize ecological vitality

IV. Technical Solutions

1. Candylad Network Structure
2. Candylad design principles
3. Candylad's core technology advantages

V. Applications and application scenarios

1. NFT Charity Application
2. Charity community construction
3. Credit enhancement and certificate issuance

VI. Penetrating economy

1. Benefits of Candylad

VII. Flash Swap cross-chain aggregation

1. Product introduction
2. Product innovation
3. Solving the Rigid Demands

VIII. The limitation of Candylad

I Introduction

Blockchain is the benchmark of this era, and it will build a society full of credit. Every progress of mankind has been served by technological break-through; computers and information technology have led the last industrial revolution. These days, blockchain is attracting more and more attention from academia, finance and technology, and the charity community. It is also beginning to enter the blockchain industry by continuing observation and research. Behind the blockchain in full swing, speculation, and overnight wealth it's almost the dream of most people at the moment. The record-breaking market situation makes many blockchain projects, which only care about absorbing gold and ignoring the customer experience, not to mention landing applications. Outcome, a large number of "blockchain projects" came into being in the surging financial investment market, flourished for a while, but soon fell silent. The blockchain industry is mixed, which projects are worth investing in? It all comes to one thing. In addition to the fundamental values, it is important that the ultimate beneficiary must be the customer and the society, because only the success of these two can truly realize the durable project and reach the other shore of the customer value. With the goal of "building a blockchain 4.0 charity community", Candylad is determined for changing the unhealthy atmosphere of the current blockchain market. At the right time It will bring some positive and useful "blockchain + charity" applications and explorations, come out of the conventional idea. Candylad wants sweet candy in every corner of the world

II Market analysis

1. Tokens and Charity

When Token was used as a digital credit proof, there were already examples of donations made in Bitcoin. Fidelity Charities, the largest U.S. foundation, received \$69 million in crypto currency contributions in 2017, up to \$7 million in 2015 and 2016.

In addition to donations, there are many innovative platforms and projects that also demonstrate digital currencies like crypto currencies. For example, crowd funding platforms like Bithope allows the sponsor to make Bitcoin's donations to selected charities at charity events. Further, there are tools that can help to track where charity funds are going. GiveTrack and Alice are the examples, which can publicly track the flow of money donated by donors to charity organizations and verify what the charity has received and achieved. Digital currencies, these are charitable applications of tokens when they are used as digital credit proof, but they can still apply in the context of today's pass-through. Setting up a token fund, relying

on blockchain to improve the clarity of the funds and so that the public have a clear understanding of where the funds are going, can also improve the reputation of the foundation.

Now, with the understandable design concept, check how feasible it is to track the flow of charity donations. A charity or foundation can issue a class of pass-through then when sponsors contribute their money to a fund, they can also check the transactional information of the pass-through to know exactly where each payment gone.

This approach not only improves operational efficiency, but also facilitates the flat management of the organization, and even unnecessary charges are avoided. In these scenarios, pass-through are no longer a virtual item without an anchored practical application; they not only have a price, but also represent the sum of the benefits of various digital assets.

2. Passe-through and Assistance

Like charity, there is a problem, which is the ambiguity of large capital flows. Support the government to help poverty-stricken areas, increase the employment income of talents and improve the talent market in society. But the taxpayer's money is used. That's why it is also necessary for taxpayers to know where the money is going.

Tokens and bonds intersect in a broad sense, and both are certificates that represent multiple economic interests. Bonds represent four types: title certificate, transferable law certificate, income law certificate and risk law certificate.

The pass-through concept is perfect.

But the difference between them is that Bonds are civil rights with property attributes.

The pass-through tries to change the economic structure from the point of view of the enterprise, And represents the property, circulation, income and risks of the enterprise in digital form.

The attempt at a currency-free blockchain could be used for charity and work to alleviate social welfare poverty. In a non-currency state, the attributes of a token can be used to check its liquidity. The nature of public wealth urgently requires transparency in the flow of funds and simplified distribution steps.

Due to the characteristics of the digital information era, blockchain-based to achieve point-to-point transfer, simultaneously we can track the direction of flow, the process will not be complicated. With the power of blockchain, use the most appropriate public goods to authenticate rights and interests. We use blockchain technology to integrate token attributes, develop the token economy, and promote the development of charitable volunteers without affecting social-economic development.

III. Project Concept

1. Project overview

Candylad is a company together with established by the world's leading charity foundation and the world's top blockchain technology team, and has received investment from the magnate in Dubai. The company focuses on blockchain technology, smart contracts, initial coin offerings (Candylad) and digital currency investment, with a focus on planning to form the charity community, combined with current hot spots, such as NFT and DEFI, to provide data to the new charity blockchain. The project will provide data to support the new charity blockchain to promote the development of charity. The project will be launched in multiple countries around the world at the same time. The ultimate goal is to create a more open, transparent, reasonable and trustworthy platform for global charity. With the perfect combination of blockchain technology and pass-through rights, Candylad is using the Candylad token as a nexus to create a unique closed-loop industry. By learning different levels of application scenarios, improve the ecology of the charity industry and make sure that trust is perfect.

2. Candylad concept

Key Concept: Based on the premise of retaining the core functions of the current mainstream successful people, is the core function of the current successful blockchain project. Candylad will bring together the reality of the charity industry. And will add many practical functions on this basis to Fundamentally solve many problems in the current charity industry.

Application Concept: In the current situation, the blockchain industry has started to move into the application development stage. Candylad will deliver applications and services in a timely manner, take full advantage of the benefits of blockchain, overcome bottlenecks in current blockchain projects, and actively launch charitable projects.

Development concept. Candylad's tech team is committed to a “realistic” concept: while taking advantage of other blockchain projects, they also offer more practical technical solutions for charity based on their own situation.

3. The cornerstone of Candylad

- **Development capabilities at the engineering level**

Candylad has a global technical team. Team members have unique knowledge and experience in blockchain, charity funds, data, and other fields. They have many years of experience in development, which gives huge benefits and guarantees to the technological development of Candylad.

- **Complex core business logic**

The main business sectors of Candylad cover several areas, with the

development of information exchange, information settlement systems, multifunctional purses, traceable elements, smart contracts, etc. And eventually will be integrated and linked to a shared ecosystem of social well-being and charitable communication.

- **First-line cooperation in the industry**

Excellent partners from the organization are the key to success. Candylad has top-notch partners around the world and will partner with Candylad in every aspect to help Candylad advance its rapid development at all levels.

- **Global market starts synchronously**

Candylad has a broad community and customer base and commercialized deployment around the world. At the same time, with the strength of the community, Candylad can be launched simultaneously in various markets around the world, to take advantage of opportunities and scale up!

In the future, Candylad will create several customer communities and websites in Spain, Canada and the United States. Build multiple customer communities and websites in Spain, Canada, USA, Singapore, Europe and the USA. Singapore, Northern Europe, Eastern Europe, Japan, China, South Korea, Australia, Malaysia, Cambodia, South America and other countries and regions to accelerate the development of the project.

- **Industry-leading trends**

Candylad has revolutionized the existing funds industry. Disruptive changes in the charity industry have created an advanced unique ecosystem of the charity industry. We hope that a series of disclosure and fair rules and standards can promote rapid changes in the entire market and optimize and rationalize the current industrial structure. Improve the current industrial structure, rationally allocate society's resources, and finally implement a blockchain-based Candylad protocol and create a decentralized charity ecosystem.

- **Global commercial applications**

Automation technology is applied in the candylad's smart contract process. You only need to set the relevant conditions and requirements to automatically execute the smart contract. Automatic execution makes it more objective, transparent, and credible, reducing cooperation costs and error rates. For targeted donations, mass donations and conditional donations, smart contracts can be automatically executed, so that funds and materials are automatically transferred without human intervention from the charity platform, but all parties can still monitor and verify the implementation of targeted donations at any time. The use of blockchain smart contracts can solve the problems of complex processes and background operations in conventional charity projects, and to exclude corrupt acts in the process.

4. Candylad model innovation

- **Increasing information transparency and disclosure of the organization**

Candylad is a core technology based on the trust mechanism established by blockchain technology. It is based on an anonymous network whose users are public, with the exception of special groups. It can effectively promote information disclosure, increase the transparency of the organization, clarify the content of information disclosure, improve the content of information disclosure, and follow the principles of importance and comprehensibility. And also standardize and institutionalize it to fill regulatory and policy gaps. At the same time, self-discipline management has a smooth disclosure platform and disclosure model with a high enough degree of transparency and confidence. Thus, the use of Candylad can increase creditworthiness.

- **Implementation of multifaceted social supervision**

The government's supervision power is limited. Another important way is through various forms of third-party supervision platforms. Third-party monitoring platform. Candylad has established a supervisory function based on blockchain technology.

The supervision function based on blockchain technology, especially bench marking review and guarantee maintenance, to control moral hazard.

Candylad is a more equitable measure of the quality provided by the Love by Society, which provides multi-level and comprehensive social oversight and constantly develops the service capabilities of the Candylad platform.

- **Protect privacy**

Anonymity can protect the privacy of donors. At present, the disclosure of the personal information of donors is very common, and some parties to charity projects do not want their information to be leaked. Using Candylad encryption technology can better protect the privacy of recipients and donors. Only the person holding the project's private key can see the relevant information of the project, and other people cannot obtain detailed information about the project.

- **Effectively prevent the negative effects of hacker attacks**

When donors use the Candylad platform to make donations, online donation information and transactional information will be recorded in the underlying blockchain technology, and the donated digital currency will be stored in the platform's official blockchain digital wallet. Even if hackers break into the Candylad platform, they can only steal the digital records of the customer's online donation cards, not the real digital currency, and these digital currencies are in Real digital currency in a blockchain wallet. Thus, hacker theft of digital currency was avoided.

- **Safety performance**

The Candylad platform uses the world's most advanced concurrency technology and has been certified by an authoritative center. The background processing speed is as high as 100,000 per second. The Candylad system uses advanced multi-layer

integrated system architecture. The multi-layer architecture is designed to greatly improve efficiency, safety, system stability, and scalability.

- **Mobilize ecological vitality**

Candylad uses the incentive mechanism of the pass to fairly distribute benefits in the industry chain and regulate the behavior of members. Passes can also be used as a tool to measure the contribution of volunteers' charitable behaviors to society, much like medals. Medal and proof of contribution without value and enter the transaction. Promote the development and progress of charity.

IV. Technical Solutions

1. Candylad Network Structure

The Candylad platform uses the most advanced blockchain technology structure today. It especially includes the following levels.

- Data level. It is a block + linked list data structure, which is a distributed block chain.
- Network level: p2p network.
- Consensus level: develop a mechanism for receiving currency through the blockchain. The platform uses POW (work confirmation mechanism)
- Contract level. The previous blockchain didn't have this layer. Therefore, the original blockchain can only be used for transactions, but not for other fields or other logical processing. However, the emergence of the contract layer makes it possible to use blockchain in other areas.
- Application level: The presentation layer of the blockchain. The application layer of the blockchain can be mobile, networked, or integrated into an existing server, using the current business server as the application layer, which communicates with a smart contract layer through web3.js. All smart contracts run on EVM (virtual machine) and will use RPC calls. EVM and RPC are below the two core functions of the platform. The three core functions of the platform: blockchain, consensus algorithm, and network layer.

2. Candylad design principles

- The principle of networked integrity: trust is internal, not external.
- Distributed consensus principle of distributed power: verification pool mechanism/POOL is based on conventional distributed consistency technology and data verification mechanism, which makes it possible to use mature distributed consistency algorithms (Paxos, Raft) It is possible to realize second-level consensus verification without tokens.
- Value incentive principle: The system integrates the rewards of all stakeholders.
- Security : the security measures embedded in the network are not single points of

failure. They not only guarantee confidentiality, but also guarantee the authenticity and non-repudiation of all activities.

- Privacy : people should control their data. They can decide for themselves which information they want to identify, when, and how much to disclose to others
- The principle of reservation of rights: Ownership is public. Transparent and enforceable. Individual freedom is recognized and respected.
- Inclusiveness : The best state of economic development is inclusive. This means lowering barriers to participation and creating a platform for the development of Fenbushi Capital. A platform for the development of distributed funds, not just redistributed funds.

3. Candylad's core technology advantages

- **Multiple safety structures**

The advantages of the Candylad system are security and non-tamper ability. In the process of transferring valuable charity information, the behavior records submitted by customers can be verified through the internet and System verification. According to the smart contract of the block chain, the system realizes the recording of behaviors and automatically generates instructions, and at the same time. [...] And update the transaction value simultaneously with the transactional data recorded in the block. Therefore, customers can obtain safe, convenient, and reliable big data services. This confirms the whole process in behavior mode, makes the process truly transparent, effectively avoided the loss caused by attack and theft, and improves the security, openness and transparency of customers in the platform transaction process.

- **Encrypted point-to-point Transfer**

Candylad uses a unique technology to achieve direct peer-to-peer communication. Its core is the information interaction of decentralized agents. Candylad verifies the trust of ownership through digital signatures. In fact, it uses algorithms to solve the peer-to-peer credit problem in transactional processing. In other words, the integrity and authenticity of the transfer can be achieved through encryption algorithms, and the mandatory automated execution of credit can be achieved through smart contracts. The source of trust in the process of value transfer can be realized through structural design. At the same time, the creation of credit and the establishment of trust are through consensus-based mathematical methods in the transfer system.

- **Efficient asset data settlement system**

For Candylad, the application of blockchain technology to settlement greatly simplifies the existing complex settlement process, and the platform supports customers to recharge various digital currencies into their wallets. It improves security through centralization and decentralization, and takes into account the computing power of large amounts of data.

Through Candylad's unique settlement system, long-standing settlement problems in conventional industries will be solved in a targeted way, making settlement faster and at lower cost. The improvement of settlement efficiency will cause a qualitative change in the entire industrial chain!

- **Supply chain management**

Based on the advantages of blockchain technology. Candylad can perfectly solve many stubborn problems in the charity industry, such as information asymmetry caused by a large management span, weak traceability, and difficulty in obtaining data across the entire chain.

Due to open, transparent, and fair point-to-point transmission, the entire supply chain does not require a third-party intermediary and everyone can view it freely. Ensuring transparency and authenticity, providing true and reliable information, and letting the value of credit in the entire charity industry upstream and downstream. Efficient transfer between the two, the perfect information sharing and management of the charity industry supply chain is realized, which greatly improves the efficiency in overall and reduces the cost.

V. Applications and application scenarios

1. NFT Charity Application

The original intention of the Candylad project originated from deep affection of the charity and public welfare and it is an innovation that strives to explore the perfect combination of funds in the blockchain field. Let all those who hold Candylad have the opportunity to dedicate their affection. The Candylad Charity Foundation will be established one after another, the main charity direction is based on the relief of the global war-torn areas, the displaced, the poor, and the children who have dropped out of school. The direction of public welfare is focused on air pollution, global temperature warming, and water pollution control. Candylad uphold to the spirit of love and dedication, is determined to build a blockchain 4.0 charity community, and always adheres to the charity concept of letting love and candy spread all over the world, with the goal of exploring and realizing the perfect combination of blockchain and charity. From NFT cards, Swap started, striving to be the forerunner in the field of funds blockchain 4.0 community. At present, the candy technology side has begun to develop and produce charity NFT cards, and through the implementation of NFT cards, to explore charity in the meta-universe space. In the future, candy NFT cards can donate part of the funds to the candy charity foundation through auctions and sales.

The Candy Charity Foundation will uniformly use the donations for the daily work of blockchain 4.0 community funds, and will give priority to the development of funds in the blockchain field. Art and charity have always been inextricably linked. Link up and hold art auctions to support charity. As the application of NFT in the field

of art continues to mature, NFT has become a new form of charity. As the application of NFT in the field of art continues to mature, NFT has become a new form of charity. Candylad can issue NFT tokens to those who are encouraged to donate them. Donor's issue NFT tokens to encourage them to donate more. Nowadays many people like to share the memories they got through donations on social media, such as electronic donation certificates, etc... The unique nature of the National Tourism Administration souvenirs obviously makes it more valuable, can be shared with others and inspire people to donate.

Compared with ordinary souvenirs, the unique nature of NFT souvenirs obviously makes them more valuable, which can be shared and inspire people to donate. Through NFT, Candylad can also auction NFT artworks and donate that part to charities, rather than through middlemen, making it easier for artists to donate to charities.

2. Charity community construction

Candylad is the world's first decentralized charity community based on the BSC smart chain. It uses the decentralized, non-tamperable, fair and just characteristics and advantages of blockchain technology to completely subvert the existing charity industry. Candylad allows people from all walks of life to participate in charity under the premise of fairness, openness, justice, and transparency, play their role in the charity ecosystem, help others and themselves and form a blockchain charity system with goodness as the basic value. In the Candylad system, the operating mechanism of the blockchain will be implemented. Under the consensus achieved of social responsibilities and personal benefits, the realization of the operating mechanism of the blockchain and the contribution to society based on the value, will be measured as the measurement standard. Tokens serve as the actual carrier of charitable distribution, and the construction of the token ecosystem as the basis of charitable distribution. Construct a token ecosystem as an application scenario for the realization of the charity model. Scenes to realize the philanthropical behavior model of point-to-point precise assistance minimizes the philanthropic cost of charity operations, thereby realizing the Candylad project. It is a practical carrier to achieve the high-efficiency and high-value development goals of social charity. The high-efficiency and high-value development goals of the social charity system.

In addition, the Candylad project is also actively cooperating with various charity platforms and has achieved certain results in inclusive finance, disaster relief, and charity.

Certain achievements have been made in finance, disaster relief, etc., as well as the construction of a blockchain technology platform to promote the realization of sustainable development goals.

3. Credit enhancement and certificate issuance

Advantages of Candylad blockchain technology in improving credit quality. Candylad's decentralized storage engine ensures that no organization can arbitrarily tamper with the data, increasing the reliability of information and providing credit backing for identities and other evidence. It also helps the relevant parties to verify the authenticity and originality of the data in the data transfer process without relying on a central authority; since the data required for validation is synchronized across all operations, data validation is complete. Performed on-site by the inspection department, so increasing the efficiency of the inspection. The security mechanism of asymmetric encryption also makes it easier to validate and manage credentials. Using Candylad technology, a tamper-resistant digital certificate can be generated, so creating a new credit authentication mechanism and better management of public interest departments.

VI. Penetrating economy

Candylad is based on the issuance of BSC, with a total circulation of 69,000,000,000,000,000,000, of which 95% is liquidity, 3% is marketing, 0.75% is airdrop, and 1.25% is burned.

1. Benefits of Candylad

- Development based on the price increase of Candylad, together with the development of Candylad, has been recognized by a large number of customers, thereby increasing its value.
- The Candylad community ecology teams of different sizes based on direct push. Different rewards should be given to hosts who have obtained different stars.
- Candylad's commercial value, based on the sincere application of Candylad's business, has become an ecological environment for phone top-ups, gas card top-ups, and major currency exchange and other ecosystems are emerged.

VII. Flash Swap cross-chain aggregation

Since the sudden emergence of the Ethereum network and the detonation of various DeFi protocol innovations, the public chain pattern does not seem to be dominant. The subsequent public chains such as BSC, Solana, Heco, and Near have also continued to create amazing performance, under the background of the common prosperity of multiple chains, the demand and scenarios for cross-chain transactions have begun to grow rapidly in the encrypted market, which has promoted the innovation and explosion of cross-chain DeFi, so we found that the market lacks Flash Swap cross-chain aggregation, and we feel it is filled this market is blank.

Candylad Swap is the first cross-chain aggregation protocol that realizes the free

transaction of native assets between mixed chains. It provides customers with a "one-click" mode by deploying the "aggregator + asset cross-chain pool" model on different public chains and Layer 2 networks. "For the cross-chain asset exchange experience, the networks we will access after launching Swap include Ethereum, BSC, Neo and expand to ecosystems such as Solana, Polygon, and Polkadot.

Swap, a cross-chain aggregation protocol, will support the Arbitrum network and support cross-chain transactions between mainstream assets on the Arbitrum network and other networks such as Ethereum and Binance Smart Chain (BSC). At the same time, Candylad Hub added the USDT cross-chain transaction pool of the Arbitrum network, and customers can participate in USDT liquid single currency mining.

The Candylad Swap platform uses the world's most advanced exchange technology, and the background processing speed is as high as 100,000 transactions per second. The Candylad system will adopt an advanced multi-layer, multi-layer integrated system structure. The multi-layer structure is designed to greatly improve efficiency, safety, system stability and scalability.

1. Product introduction

The main functional modules of Candylad Swap are composed of two parts: Candylad Aggregator (transaction aggregator) and Candylad Hub (cross-chain transaction pool). Candylad Aggregators are aggregators deployed in various mainstream networks to help customers find the highest quality prices and the most effective transaction paths; Candylad Hub is a hub for cross-chain transactions, by creating a cross-chain asset transaction pool, similar to "cross-chain Curve "The method helps customers achieve one-click cross-chain transactions of assets on different chains, and customer can add liquidity of Candylad Hub to obtain cross-chain transaction commission rewards and Candylad rewards.

2. Product innovation

The most noteworthy innovation is the design of the Candylad Hub cross-chain pool. Through the cross-chain protocol Poly Network is the mainstream assets on the Ethereum, BSC, Neo, Heco and other public chains and the Layer 2 network are aggregated in the Cross-chain Pool, breaking Conventional cross-chain bridges require asset wrap/peg, which causes customers to be forced to accept the drawbacks of new mapped assets. Through the agreement combination of Candylad Aggregator + Candylad Hub, customers can choose the native assets of the from and to chain/network to achieve one-click cross-connection.

3. Solving the Rigid Demands

Imagine customer A only has BNB in his BSC wallet, but he needs to change to HUSD for mining on MDEX. At this time, he can usually choose only the default path to achieve this, first deposit BNB into Binance Exchange Change to USDT, and then

withdraw coins to Huobi, change to HUSD, and then propose to connect to MDEX on Metamask.

But now if A chooses Candylad Cross-chain Route, as shown in the figure below, he only needs to connect to the wallet, select the From and To addresses, and he can complete the exchange with one click. The whole process is one-click operation and the path is completely decentralized.

The above demand scenarios such as customer A are obviously increasing with the development of the multi-chain market. In addition to the complicated customer experience, the conventional path hides a more important reason for customers. Much Digital money doesn't want to go through many centralized systems, privacy and security are important to them; and the decentralized path through Candylad swap not only satisfies security and privacy, but also makes one-click transactions more convenient.

VIII.Candylad Risk Warning

To the maximum extent, based on the relevant laws, regulations, and related rules. The Candylad foundation or its branches are not responsible for any form of direct, indirect or other losses (including but not limited to income or Loss of profits, as well as loss of data).