



AIQT white paper

Safe and reliable blockchain
quantitative trading system

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1. Summary

Blockchain technology has achieved significant growth in the past few years, and the digital currency market based on the underlying technology of blockchain, represented by Bitcoin and Ethereum, has also experienced explosive growth. As of January 31, 2018, there were more than 1,500 global tradable digital currencies with an economic volume of more than \$500 billion, and this number is still growing. In the future, blockchain-based digital currencies and their derivatives markets have great potential.

The booming digital asset market is eager for a better financial market infrastructure. Investors have higher and higher requirements for the security, convenience and reliability of cryptocurrency accounts. Enterprise customers hope to provide complete cryptocurrency security. The solution, long-term holders of cryptocurrencies, are looking forward to a stable and quality wealth management program... these are the blue ocean spaces that are urgently needed to be filled in the market.

AIQT currently provides integrated investment and financing services for high net worth users. Based on the principle of blockchain technology to protect the privacy of investors, we are committed to providing users with excellent investment opportunities and a wonderful life experience. Its positioning is a safe, convenient and reliable high-end blockchain ecological community; it is a wealth management solution for more and more digital asset holders; it is a complete digital asset security storage solution for enterprises, institutions and other users.

Unlike traditional private banks, AIQT focuses on the digital asset market, relying on the inclusive financial capabilities of blockchain technology and the world's leading Higgs Chain high-performance blockchain network, extending from high-net-worth customers of traditional financial services to Digital asset participants worldwide, including businesses, institutions, merchants, and small individual users. We are confident that AIQT must be one of them if each market participant is only active in using three digital asset applications in the future.

AIQT and eco partners are designed to address trust in digital financial activities and provide revolutionary distributed digital financial services to people around the

world. Let more people of different nationalities and backgrounds participate in the digital asset market simply and safely. We always pay attention to how the blockchain technology and digital asset market can further upgrade the financial industry and promote the development of the world economy.

2. Project background

2.1 Digital Money Market Development Trends and Challenges

Blockchain technology has achieved significant growth in the past two years. The digital asset market based on the underlying technology of blockchain has also experienced explosive growth, represented by Bitcoin and Ethereum.

However, the booming cryptocurrency market has no matching financial market infrastructure. For ordinary users, the security, convenience, and reliability of cryptocurrency accounts are difficult to guarantee. For enterprises, organizations and other users, there is a lack of solutions on the market that provide secure storage of complete cryptocurrencies. In addition, the entire market lacks a platform for wealth management for long-term holders of cryptocurrencies.

2.1.1 The security and convenience of cryptocurrency accounts are difficult to guarantee

According to incomplete statistics, from 2014 to 2018, in just 4 years or so, more than ten exchanges and wallets including Mt.gox, Bitfinex, OKCoin, and Bitstamp were stolen, and more than 1 million bitcoins were lost. At the end of January 2018, the 523 million NEMs of the Japanese exchange CoinCheck were stolen, which once again cast a huge shadow on the digital assets security. In addition, in the past few years, the loss of user assets due to loss and disclosure of private keys and account theft is also an astronomical number, and the security of cryptocurrency accounts needs to be resolved.

In addition, each public blockchain and other digital asset issuers focus on independently developing their own projects, and these various assets or tokens do not have a common carrier and entry, and the asset transfer process is complex and should be safe. Convenient digital assets are not even easy to use with traditional finance.

2.1.2 The market lacks an enterprise-class cryptocurrency secure storage solution

Although the cryptocurrency market has prospered the boom of exchanges, mining pools, ico projects, investment institutions, etc., there is still a lack of products on the market that can effectively satisfy the secure storage and management of cryptocurrencies by these corporate customers. demand.

Since the management and trading of cryptocurrencies is very different from the traditional financial industry, the threshold for traditional financial practitioners to participate in the digital asset market is relatively high.If there is no effective solution, it will directly hinder most traditional financial enterprises and institutions from joining the digital asset market, and will also lead to the rapid expansion of the volume of the entire market.

2.1.3 The market lacks a wealth management platform for digital assets

In mature traditional financial markets, wealth management is already an inseparable basic product. In the digital asset market, there is almost no matching wealth management platform to activate digital assets with wallets.

Since the total issuance of most digital assets is constant, it is naturally scarce, and the value of digital assets such as Bitcoin and Ethereum has increased hundreds or even thousands of times in the past few years, which has led to many investments. The person chooses to hold the cryptocurrency in his hand for a long time. At the same time, some large-capital companies and institutions take into account the safety and other factors, and also deposit funds that are not commonly used in cold wallets. This part of the wallet assets is very large, but has not been able to get effective activation.

In addition, many investors want to achieve the goal of rapid value-added wealth by subscribing to high-quality ico projects. However, the market has not yet formed a credible digital asset issuance mechanism, and some platforms do not have an entry barrier for blockchain projects. Leading to low-quality, even deceptive, high-risk projects.

Before the advent of AIQT, there was no mobile digital asset quantification application to solve all of the above problems.

2.2 AIQT's mission and vision

AIQT intelligent quantitative trading system is the artificial intelligence blockchain quantitative trading product that Riskalyze has combined with many years of traditional financial industry intelligent investment experience and self-developed for 10 months. It is stable, efficient and easy to operate, and makes blockchain numbers. Asset trading is automated and intelligent. The AIQT system is the first product of the company in the blockchain industry.

Our mission is to make the world invest fearlessly.

For ordinary investors, investment is fragmented, and subjective risk semantics such as "radical" and "moderately conservative" do not help. We believe that when consultants align global investments with each investor's risk index, anyone can make a bold investment. AIQT's vision is to become the best quality investment and financing integrated service community to solve the above problems.

First, AIQT is a "digital asset bank." It combines the features of the blockchain decentralized wallet with the security and ease of use of traditional commercial banks to create the safest, most convenient and reliable digital asset bank.

Second, AIQT is also a "private bank." Unlike traditional private banks, AIQT focuses on the digital asset market, relying on the inclusive financial capabilities of blockchain technology, and its clients have expanded from traditional high-net-worth customers to companies, institutions, merchants and small-scale individual users. Digital asset participants within.

At the same time, in order to fully protect the security of users' assets, AIQT also actively communicates with regulators, applies for licenses for cryptocurrency banking, and strictly abides by the regulatory requirements of the project to ensure the compliance of platform operations.

As a blockchain private bank, AIQT will provide secure storage, wealth management, payment clearing and other solutions for the entire cryptocurrency market based on the world's leading high-performance blockchain platform. It also aggregates ICO investment, OTC transactions, information. A series of functions

such as social networking, which can connect and activate most of the application scenarios of digital assets.

In summary, AIQT and our eco partners are designed to address trust and security issues in digital financial activities, providing revolutionary distributed digital financial services to people around the world. Let more people of different nationalities and backgrounds participate in the digital asset market simply and safely. We always pay attention to how the blockchain technology and digital asset market can further upgrade the financial industry and promote the development of the world economy.

3. AIQT product description

3.1 Product Positioning

AIQT is an integrated investment and financing service community, mainly reflected in storage banking, investment banking, and corporate services:

- ◆ Storage bank

AIQT is a secure and convenient digital asset storage bank that provides the most basic aq digital asset deposit and withdrawal service.

- ◆ investment bank

AIQT provides wealth management products such as stable income management products and high-return ico investment for different users' risk appetite.

- ◆ Corporate Services

AIQT pioneered the enterprise-class cryptocurrency secure storage solution and enterprise-class cryptocurrency hardware cold wallet, focusing on serving corporate customers.

- ◆ Clearing settlement center

Based on the Higgs Chain blockchain network, AIQT creatively defines a common protocol for the transfer of value across heterogeneous blockchain networks—Lightning Network 2.0, which builds a digital asset clearing settlement network that solves how securely and conveniently multiple The problem of asset management and circulation on the blockchain network.

3.2 Product Features

◆ Cross-chain wallet

AIQT innovative use of Lightning Network 2.0 and intelligent contract technology to achieve secure transfer and settlement of cross-chain assets. At the same time, relying on the inclusive financial capabilities of blockchain technology, AIQT has extended the services of private banking from traditional high-net-worth customers to digital asset participants around the world, including enterprises, institutions, merchants and small individual users. All users can manage and trade a variety of blockchain assets safely and conveniently.

◆ Wealth management

High-yield wealth management products: AIQT raises wealth management funds for all digital asset holders and manages them through a quantitative strategy team in the background of top financial investment institutions, and quantifies through cross-market arbitrage, single market, market, and market. Hedging strategy to obtain stable value-added space under low risk. At present, AIQT provides users with wealth management products with daily income of more than 5‰, and will cooperate with licensed fund institutions and asset management institutions in the industry to provide users with richer balance type funds (real-time redemption) and graded funds, , etf fund products and passive asset management plans to meet the financial needs of users with different risk preferences and different liquidity requirements.

Open and transparent ICO Store: AIQT reinvents ICO through smart contract and blockchain technology, attracting the best quality ICO projects to be released at AIQT, creating the most credible and valuable blockchain project distribution platform. At the same time, AIQT has optimized the entire process to make it more transparent, secure and smooth, allowing users to get the best quality blockchain project investment experience.

◆ Enterprise-class secure storage solution

AIQT is focused on providing customers with the most secure cryptocurrency storage solution. Based on self-developed enterprise-grade cryptocurrency cold wallet, AIQT will combine multiple security encryption technologies such as hot wallet

encryption, hot and cold end separation, 7-fold multi-dimensional signature, face/iris recognition, and smart terminal card encryption. The combination of financial process system and approval and authorization system guarantees the security of user assets in all aspects.

◆ Micropayment

As a pioneer in the industry, AIQT actively explores the possibility of digital assets becoming a settlement currency, providing users with a variety of convenient and cryptocurrency payment experiences, and providing merchants with efficient and secure settlement solutions. We are about to launch a pilot program for cryptocurrency offline payments in Singapore, Japan, South Korea, and Hong Kong.

◆ Decentralized otc transaction

AIQT's underlying higgs blockchain platform provides decentralized otc transactions to users through a powerful intelligent transaction matching algorithm. Users do not need to provide a margin, through the smart contract, AIQT can automatically lock both currencies, complete otc transactions safely and efficiently.

◆ other functions

- In addition to the above features, AIQT will also create:
- 1:n's super account system, one-click login to multiple trading platforms;
- Professional information services, through the big data technology to collect the latest hottest blockchain industry information in the current network;
- As powerful as Telegram and WeChat, users can add friends and build their own communities through AIQTID or QR code.

In addition, AIQT is committed to building Lightning Network 2.0 into an open protocol within the industry, building together the industry's largest cross-chain digital currency transfer and clearing ecosystem with industry and communities, enabling faster and faster asset ownership across all chains. Safe transfer.

3.3 Team Introduction



Aaron Klein
Chief Executive Officer

As the co-founder and CEO of Riskalyze, he led the company twice as one of the top 10 most innovative financial companies in the world by Fast Company magazine. Aaron was a trustee of the Sierra College. In his spare time, he co-founded a school for orphans and disadvantaged children in Ethiopia. "Investment News" named him one of the 40 executives under the age of 40 in the industry.



Michael McDaniel
Chief Investment
Officer

Mike is essentially responsible for risk management. In 2005, Mike founded McDaniel Wealth Management, a paid registration consulting firm. He co-founded Riskalyze in 2011 and is now responsible for overseeing all investment-driven, market-driven product decisions.



Matt Pistone
Chief Technology
Officer

Matt is a graduate student in physics at the University of California at Berkeley. Before co-founding Riskalyze in 2011, he worked in the Lawrence Berkeley Lab for nuclear exploration research for the federal government. He is now responsible for Riskalyze's architecture, core technology and data center operations.

4. AIQT Technical advantages

4.1 Multiple Encryption Secure Storage Technology

Enterprise-class hardware cold wallet: AIQT's self-developing cold wallet adopts military three-proof technology and is completely isolated from the Internet. The hardware CPU is built with the Secure Boot and Efuse mechanisms, combined with data encryption chips, and its security level is recognized by national-level licensed exchanges. At the same time, the cold wallet also has technologies such as NFC and face/iris recognition, which can be verified and signed simultaneously with the smart authorization device. In the signature process, AIQT also supports the financial process of the mobile hot end APP to complete multi-level approval. Safe, convenient and fast.

Enterprise-class secure storage solution: AIQT separates the hot wallet encryption, hot and cold end, and stores multiple cold wallets in multiple places to form a multi-center multi-center cryptographic signature scheme. At the same time, AIQT uses multi-signal P2SH and financial privacy BIP32 technology to encrypt all data information. In addition, AIQT also uniquely multi-signature algorithms such as rate limiting, address whitelisting, webhooks, etc., combined with the financial process system and the approval authorization system, not only can guarantee the security of digital assets in all aspects, but also make the whole coin-coin process more efficient. Convenient.

4.2 The world's top quantitative strategy

AIQT wealth management products are jointly built by top financial institutions, asset management teams and senior cryptocurrency investors. Through the quantitative hedging strategy of cross-market arbitrage, single market making, and cross-market making, we will obtain stable value-added space under low risk. Currently, the AIQT Quantitative Strategy team manages more than 10,000 btc of self-operated funds (approximately \$100 million), contributing more than 1.6% of the volume of the mainstream cryptocurrency market.

- ◆ Inter-city arbitrage
Multiple exchanges, risk-free arbitrage between identical trading pairs

- ◆ Single market arbitrage
Risk-free arbitrage between different trading pairs on the same exchange

- ◆ Strategy backtest
Provide multi-dimensional analysis reports for historical data

- ◆ Trend trading
Trend analysis and fully automated trading under different k-line conditions

- ◆ Transaction monitoring
Provide investors with real-time trading orders and signal reminders

- ◆ Big data analysis
Analyze transaction data, develop better strategies, and get more profitable

4.3 Lightning Network 2.0 based on cross-chain technology

4.3.1. Achieving value cross-chain transfer

AIQT defines a universal lightning network communication protocol for value transfer across heterogeneous blockchain networks. AIQT users can lock value in the original chain based on the protocol, and extract the value on AIQT, and then enjoy fast and low-cost transactions; AIQT's dapp can complete services across heterogeneous blockchains based on the protocol.

- ◆ Universal lightning network communication protocol for heterogeneous blockchain

Bitcoin and Ethereum networks each implement different lightning network communication protocols, and the protocols are not compatible with each other, which makes it difficult for users to build a lightning network channel between heterogeneous blockchain networks. AIQT defines an abstract value transfer scheme based on cross-chain technology that is compatible with mainstream blockchain protocols, designed to mask the complexity of different blockchain implementations, and to establish lightning networks between heterogeneous blockchains.

- ◆ Original chain value lock

AIQT developed its own lock-in smart contracts for different blockchain implementations. When a user establishes a lightning network channel, the user first performs the lock-in smart contract of the original chain. When this smart contract is executed, AIQT will lock the value in the original chain with the characteristics of the user. The original chain needs to obtain both AIQT and user authorization to perform value redemption.

- ◆ AIQT value extraction

The value-locked contract of the original chain triggers the smart contract for AIQT to perform value extraction. The value-extracting contract triggers double-entry accounting within the AIQT system, which can accurately and conveniently record the user's assets in the original chain. After the contract is executed, the user can query the

assets in the original chain on the blockchain of AIQT, or complete the real-time transaction of the isomorphic or heterogeneous blockchain based on AIQT.

◆ Financial security

AIQT is based on technologies such as multi-signature and cold wallet, which strongly protects the security of users in the original chain. In the foreseeable future, AIQT will continue to upgrade and harden security measures to protect users' funds from the security risks of hardware or software updates such as quantum calculators and distributed brute force attacks.

4.3.2. Fast and low cost transactions

Unlike the slow and costly value transfer form on the public chain, users can achieve millisecond value transfer through AIQT without paying a fee. In addition to supporting fast transfer transactions, AIQT supports efficient otc transactions, solving the complex and trusting issues of current otc transactions.

In essence, the transaction pattern of otc is a currency transaction, the buyer pays the token accepted by the seller, and the seller transfers the token purchased by the buyer. At present, the two sides of the otc are combined through a centralized system. The centralized system imposes penalties for breach of contract between the buyer and the seller (for example, the number of purchase cancellations cannot exceed a fixed number of times, and the seller does not issue tokens and will be banned) to ensure the completion of the transaction. Even so centralized otc transactions still face more grievance rulings.

AIQT expands the characteristics of the lightning network. When the buyer and the seller reach the trading intention, one party initiates an otc transaction contract through AIQT's lightning network mechanism, and locks one party's funds in the contract and sends it to the counterparty. The counterparty receives the contract. The tokens that need to be paid are locked in the contract. When the two parties lock the contract-constrained tokens together in the contract, the transaction is immediately reached, without the centralization system restricting the buyer and the seller. Before the transaction is reached, the initiating contractor can cancel the contract at any time, making the flow of funds more flexible. The AIQT Lightning Network supports all AIQT-managed tokens, including public chain tokens such as btc and eth, as well as business tokens issued by AIQT.

Compared with the traditional centralized otc transaction, the use of the AIQT lightning network to complete the otc transaction has the characteristics of decentralization, no need to trust the counterparty, and flexible capital.

4.3.3. Open and transparent blockchain project issuance

At present, the token contract on the market is opaque. Although the white paper explains the distribution plan, there is no distribution plan and thawing plan in the token contract. Instead of relying on the offline transfer operation to execute the token thawing program, the user can only trust the token. The issuer will follow the defrosting plan in the white paper.

AIQT has built-in support for transparent token issuance contracts, which complete the distribution of tokens and thawing plans. The user's token allocation and token thawing plan are set at the beginning of the issuance of the token, and the built-in token smart contract is generated on the blockchain. All token allocation and thawing schemes can be accessed through the business blockchain browser. To view, the frozen token will not enter the balance of the target account until it meets the requirements of the defrosting plan.

4.3.4. Financial business support

AIQT's financial business is supported by the underlying blockchain, such as deposits, wealth management, investment, etc., and the traditional digital currency blockchain can not achieve these functions well.

Although the traditional digital currency accounting method is very good at expressing value transfer, it cannot effectively record the debt relationship. Therefore, the underlying blockchain of AIQT draws on the design of the traditional accounting system, redefines the accounting method, expands the financial business support capability of the blockchain, and frees the upper-level business from the complexity of accounting.

4.4 Business Blockchain Browser

AIQT is a complete blockchain-based business system. Business data is completely public on the blockchain. Users can view AIQT's business data through the business blockchain browser, including but not limited to transactions, financial management, transfer, etc, Data such as token contracts.

AIQT is based on the user's business system. The blockchain address is used internally for user management. Users can view the address-related transaction history records on the service blockchain browser to achieve transparent and transparent information. The disclosure method protects the user's real information.

4.5. Technical framework

AIQT's technology system is built on the higgs blockchain platform. This technical system not only has the characteristics of traditional blockchain tamper-proof, traceability, etc. It also has the advantages of high performance, low latency and fast confirmation.

AIQT's consensus mechanism features high performance and low latency to ensure high-speed operation of the entire business system. AIQT extends the sidechain technology to support cross-chain transfers of digital currencies such as btc and eth.

AIQT's smart contract integrates the capabilities of Lightning Networks to ensure the security and transaction of funds for blockchain projects and otc operations;

◆ Token exchange

1. a User creates a coin transaction through AIQT's app, creates a smart contract channel on the underlying, and freezes the asset in the channel
2. a The user selects the b user as the notification object and sends the information of the redemption transaction to the im module.
3. The im module forwards the transaction information to the b user
4. b After the user confirms the information of the redemption transaction, the token will be exchanged through the lightning network.

5. AIQT Project token — AQ

5.1 AQ Description

Aq is an encrypted digital asset developed using blockchain technology and can be used in various services on the AIQT platform. It is one of the data contained in the aq ecosystem, which is recycled within the ecosystem and can be traded on major trading platforms.

5.2 AQ's scope of use and application scenarios

The scope and application scenarios of aq include but are not limited to the following:

- Subsequent blockchain project issuance costs
- Subsequent blockchain project subscription base token
- Depository costs for exchanges and blockchain projects
- Handling of digital asset otc transactions
- Pay for other value-added services or membership services

Use aq as a payment token in the above scenario to enjoy more benefits or get more shares.

5.3 AQ distribution plan

AQ has a total circulation of 100 million pieces and will never be issued;

among them:

50% for aq dividend distribution for daily smart hosting;

25% for new project development and to find and evaluate valuable research projects, aq tokens enjoy the right to distribute and vote for all of its projects;

20% is used to buy back tokens, and repurchase is done through smart contracts;

5% as team incentives and daily expenses;

6. Investment risk tips

6.1 Policy risk

At present, the regulatory policies for blockchain projects and digital asset financing in some countries around the world are still unclear, and there is a certain possibility of loss of participants due to policy changes.

6.2 Trading risk

As a kind of digital currency asset, aq has extremely high uncertainty. Due to the lack of strong supervision in the field of digital asset trading, digital currency has risks such as skyrocketing, all-weather trading, and bookmaker trading. Without long-term investment experience, it may cause damage to personal assets. Participants should choose the investment method according to their own situation and experience.

6.3 Coordinating risks

The AIQT project team will spare no effort to achieve all of the development goals set out in the white paper. At present, the project has a complete technical and commercial team. However, there are unforeseen factors and uncertainties in the development of such issues as technology development. The existing business models and the overall planning ideas are not in good agreement with the market demand, which makes the profit difficult to achieve or Did not meet investor expectations.

At the same time, as the follow-up of this white paper may be adjusted as the project progresses, if the details of the project's follow-up progress are not known to the participants in time, the participants' lack of awareness of the project due to information asymmetry may cause losses or affect the subsequent development of the project.

6.4 Technical risk

Since AIQT is built based on the higgs blockchain, during the process of project

update adjustment, loopholes may be found, and the technical team will continue to make up for it through patching

6.5 security risks

Digital cryptocurrency is characterized by anonymity and difficulty in tracing. It is easily exploited by criminals or attacked by hackers, or may involve criminal acts such as illegal asset transfers. Participants are required to fully understand the team background, understand the overall framework and ideas of the project, reasonably estimate their vision, and rationally participate in digital asset crowdfunding before making participation decisions.

6.6 Disclaimer

This document is for informational purposes only. The contents of this document are for reference only and do not constitute any investment advice, offer or offer to sell stocks or securities by AIQT and its shareholders. Any action related to this white paper should not be considered a public offering, including requesting a copy of the white paper or sharing the white paper with others. Participation in public offerings means that the participants have reached the age standard and have full civil capacity to fully understand all risks.

The value added of aq depends on the market pricing rules and the needs of the project after implementation, and may not have value in extreme cases.

