CoinUs
Human-to-Blockchain Interface
Abstract

Dynamic world is encroaching upon us as cryptocurrency and blockchain technology are already having a profound effect on our lives. Blockchain technology level will not remain at its current level but will continue to evolve. We believe that the technology will ultimately be at the epicenter of world’s infrastructure bringing about great innovation to the industry and raise socioeconomic standards.

With bitcoin firmly establishing its global foothold, growing number of developers and investors are participating in the cryptocurrency industry as the awareness of the industry is increasing. Also, startups, consortiums, and large enterprises are proposing new business models and applications using blockchain technology.

However, many of the current blockchain projects focus on building their new networks competing heavily to establish new protocols with ambiguous purposes and goals. These efforts are resulting in multiple “Blockchain for the sake of Blockchain technology” projects. As such, these early-stage technologies and unstable protocols have not successfully resulted in real world usage.

The CoinUs project is not a brand-new project that has never been tried before. Rather, it is a project to enable end users to navigate easily through the complex world of cryptocurrency by 1) re-examining established practices, 2) learning from existing user’s experience, and 3) offering another alternative.

Moreover, we plan to become a bridge to fill the gap that connects cryptocurrency and the real world which are still far apart, in our view. Our goal is to become an entry “portal” for everyone participating in the blockchain ecosystem.
Introduction

During initial years after its first introduction to the world, the Internet faced many uncertainties and had many shortcomings. Many people dismissed the Internet as just a passing technology fad. Approximately 20 years later today, the above negative biases have all dissipated. The Internet has now become an indispensable way of our daily lives.

We believe that cryptocurrency and blockchain technology, like the Internet, will have similar or greater impact on the economy and society as a whole. The blockchain technology will not remain in its current form. It will become a core infrastructure to bring about profound impact to the industry and socio-economy in the next few years.

If we view the Internet as a first-generation network protocol (platform) suitable for delivering information, the blockchain technology will become the second-generation network protocol suitable for transferring cryptographic-based value (asset).

It is an important issue to ponder if the blockchain technology can change the social and economic system from the innovative infrastructure point of view.

Money is ‘claim’ or ‘credit’ that is constituted by social relations that exist independently of the production and exchange of commodities. Regardless of any form, it might take, money is essentially a provisional ‘promise’ to pay whose ‘moneyness’; as an ‘institutional fact’ is assigned by a description conferred by an abstract money of account.

- The Nature of Money, Geoffrey Ingham

Bitcoin cryptocurrency can trace its roots to blockchain technology. We predict that cryptocurrency will become an ideal digital-based fiat currency as it has the potential go above and beyond limits of a credit-based currency by leveraging blockchain technology and impact today’s economy.

Under the current economic system, there exists an information gap between seller and buyer.

With information unevenly distributed, trust verification costs continue to escalate which end up increasing profits earned by the independent third-party organizations or platforms rather than the actual parties to transactions.

However, once ideal cryptocurrency – based on blockchain technology – ensconces in the market, the trust validation cost can be cut down to zero. We expect a new market to rise as the role of traditional middle-man diminishes with buyer and seller directly engaged in a transaction without the help of the middleman. Also, creative new business models will arise out of the current economic system. We expect various start-ups and innovative firms to emerge under a more decentralized environment.
From the perspective of industrial infrastructure revolution, the blockchain technology is a “General Purpose Technology” which similar to the Internet, can lead to innovation and productivity enhancements in various industries. As a new technology paradigm that is bringing about digital transformation, it will have fundamental impact on a company’s strategy, organization, process, business model, culture, and communication.

Through the digital convergence of mobile, Internet of Things (IOT), artificial intelligence (AI), and big data analysis, the blockchain technology will be at the heart of the Fourth Industrial Revolution. What will result from this Fourth Industrial Revolution is a super-intelligent society with key drivers being data and machine learning algorithms. For machine learning to flourish, a lot of data need to be constantly supplied, but there are limitations to current method due to the concerns of authenticity and security issues. Blockchain technology will support a transparent and tamper-proof data-sharing environment, which will lead to explosive growth of various customizable services.

Many challenges remain for the industry, as there are multiple technological issues that need to be resolved. In addition, competition amongst various public blockchain is still in progress. In our view, however, once only a handful of a few protocols survive which will be the point at which the blockchain technology will be fully functional as an innovation infrastructure.

So far, the industry remains in a “league of their own” with general public more focused on cryptocurrency trading for a quick profit rather than blockchain technology itself.

Blockchain technology is still in its infancy and is bound to take some time to develop its fullest potential so that it can readily be applied in a real-world setting. Speculation issues surrounding the cryptocurrency and blockchain technology will disappear when a real-life useful service launches that leverages blockchain technology and cryptocurrency.

To accomplish this, the industry needs a “killer app” that is easy for everyday use. Historically, successful expansion of new technology was accompanied by so called “killer app,” and we will strive to become the trigger of blockchain ecosystem expansion.

With the above in the background, the CoinUs project has been launched with a focus on an individual user’s individual characteristics and usability that is centered on human rather than technology. Furthermore, the CoinVerse system is our expanded universe that encompasses our philosophy of creating an autonomous blockchain ecosystem in a virtuous circle.
Introduction

1-2. Vision

Rather than relying on yet-to-be developed technology in the future, we plan to use existing technologies that are proven and in service. We plan to introduce value-added CoinUs service which users can identify with regarding user experience. We also plan to introduce blockchain-based value chain.

Our goal is not to reinvent the wheel but provide users additional freedom of choice. We plan to do so by focusing on the user experience and rethinking about the key traits of successful, user-friendly features that are simpler and stable. At the same time, we will provide product and service that enables the user to manage complex “Crypto World” with ease and convenience. Based on these objectives, our top priority is to design and provide a “Human-to-Blockchain Interface” that focuses on enhancing the experience of individual users rather than the technology itself.

Our short-to-midterm vision is the proposed service lineup, and long-term vision is to provide services and networks that are intertwined with the real world through CoinVerse.

The key unresolved issue in pursuit of CoinUs service and CoinVerse vision is different methodologies / philosophical approaches to a particular problem solving which is resulting in factions that are preoccupied with defending respective visions. We plan to contribute to the creation of common goal and common assumptions for the industry by practicing fair competition and open collaboration. As blockchain field is difficult and complex, there will be a trade-off. However, an unthoughtful compromise can sometime become the worst resolution. We, therefore, believe that the best choice is to move away from a simple “compromise” and take a different path when necessary or work together to achieve a common goal.

We believe that the best way to position our business model in the midst of (1) acceleration in tokenization of assets/rights and (2) increasing network dynamism is to not rely on a single particular protocol. In doing so, we believe that we can provide seamless and uniform service to users around the world. With this approach, we plan to continuously upgrade product and service of CoinUs and CoinVerse in the areas of technology’s efficiency level, security, and user interface.
Our short-term vision lineup is as follows:

- CoinUs Wallet
- CoinUs Keeper

**CoinUs Wallet**

The key to achieving our project goal is cryptocurrency wallet.

CoinUs Wallet will be a light-client service app optimized for the mobile environment. We will design user interface so that a user can intuitively manage various cryptocurrencies and tokens.

While bypassing complex configuration requirements, CoinUs Wallet will leverage best available technology and apply optimal security standards to provide a quick and easy way to manage digital assets.

We believe that our service will become the de facto standard for cryptocurrency wallets as we retain main benefits of blockchain-based technology while we simplify the interaction between blockchain assets and apply the secure method to store, purchase, sell, transfer, and exchange digital assets.

To achieve this, we will design the wallet based on three main characteristics: versatility, usability, and security. We will also employ best practices currently available in the blockchain ecosystem to provide interoperability and compatibility with the existing solutions or services.

**CoinUs Keeper**

We seek to provide a powerful new security solution that can be used with cryptocurrency wallets by applying transaction-linked OTP technology from the financial services industry.

Our new, powerful security solution will be available to all users in the form of a dongle that will integrate with CoinUs Wallet. We labeled the dongle as “CoinUs Keeper” or “Keeper” in short.

One of key differentiating factors for hardware wallet service is security level. Combined with CoinUs Wallet – a light client software – CoinUs Keeper will provide security level that is on par with those provided by hardware wallets. In other words, CoinUs Wallet, together with CoinUs Keeper, will provide convenient mobile service while maintaining the most important service requirement for cryptocurrency wallets, ie top notch security.

We will create brand new category segment, Hybrid Wallet.
By applying the concept of information dispersal algorithm to CoinUs Keeper, we will revolutionize the method of safely storing the private key and hence provide a powerful security.

By simply integrating CoinUs Keeper with CoinUs Wallet, the wallet will provide portability, convenience, and more powerful security, which will be the best solution to manage your assets.
We will design CoinUs Wallet to realize our core value of “Human-to-Blockchain Interface” by focusing user experience as our utmost priority.

We have engineered CoinUs Wallet system architecture such that our app will not require the use of the whole node. This approach will allow us to provide user-friendly interface, best mobile user experience, and industry leading security levels.

Moreover, we will design CoinUs under Hierarchical Deterministic Wallet (HD Wallet) structure to free us from being dependent on a specific blockchain protocol. This structure will allow us to be versatile or protocol-neutral. We will also provide multi-language support starting from Korean and English to cater to global user base.

We plan to launch a mobile version of CoinUs first and then PC-based Chrome Extension version when the time permits.

3-1. Versatility

We believe that only a few protocols with differentiating characteristics will ultimately survive the competition among various public blockchains that are in use today. Until this scenario materializes, many investors may choose to continue diversifying their cryptocurrency holdings and thus in need of versatile / protocol-neutral cryptocurrency wallet.

Portfolio diversification is a fundamental investment principle, but most wallets today cannot meet this requirement for cryptocurrency user/investor. Managing multiple wallets for a variety of cryptocurrency is cumbersome, inconvenient, and prone to security breaches.
Multi-Cryptocurrency Wallet

CoinUs will offer a convenient solution for storing various cryptocurrencies and tokens in one wallet.

Regarding support for various cryptocurrencies out there, we have determined the following cryptocurrencies as our foremost priority: 1) ETH and ERC20 tokens, 2) BTC, and 3) QTUM and QRC20 tokens.

In addition, we will sequentially release support for bitcoin-based Altcoins (BCH, LTC, and etc.), DASH, ZEC, and XRP as soon as possible. CoinUs users will be able to maintain and manage growing number of cryptocurrency types in one CoinUs Wallet.

We plan to support up to a minimum of 20 different cryptocurrencies. As our know-how and skills accumulate with release of additional support for other cryptocurrencies, we will be in a position to accelerate support for more cryptocurrencies in the future.

Moreover, when CoinUs Wallet expands to CoinVerse Ecosystem, we plan to logically integrate supported cryptocurrencies so that users can recognize them as a single digital fiat currency when using them.

To allow for smart asset management, we will not only support various cryptocurrencies but also provide a multi-wallet feature for user to conveniently diversify various cryptocurrency holdings with one account.

This method is based on deriving the appropriate key from a single starting point called “Seed,” and its design is based on the HD wallet structure applying the hierarchical concept. As a result, a user will have to create wallet once, so the user can manage various cryptocurrencies that CoinUs will support using “One-Click Adding” without creating any additional wallets.

Multi-Language Support

Another versatile aspect of CoinUs Wallet service will be multiple language support which we believe is a must to provide the uniform global user experience.

We will first support English and Korean and follow up with Japanese and Chinese languages in the near future. Support for additional languages will follow.

Multi-Exchange Rate Managing

CoinUs Wallet will provide pricing information from exchanges all over the world through.

With simple changes to settings, CoinUs Wallet users will be able to see price quotes on multiple exchanges and change to a view different exchange at any time. Supported exchanges will be added based on cryptocurrency support roadmap.

With CoinUs Wallet, the user will be able to easily check price quotes of a cryptocurrency, transaction volume, and the price differentials across supported exchanges.

Additionally, we will embed alert features so that a user can receive real time information regarding user’s digital asset portfolio.
3-2. Usability

We plan to become a trigger to expand blockchain ecosystem with CoinUs as the killer app that users use on a daily basis. To accomplish this task, we will relentlessly improve the usability of our wallet by focusing on user experience.

**Only One-Time Backup**

Most of the wallets that are currently in use require separate backups for each type of cryptocurrency they support. This process is not only cumbersome but also elevates security risk stemming from user negligence.

CoinUs proposes to design the wallet by using Bitcoin Improvement Proposals (BIP) of BIP32, BIP39, and BIP44 to solve these issues for the users.

Thanks to this novel wallet design structure, a user simply has to write down the mnemonic words on a piece of paper upon creating CoinUs Wallet and keep it in a safe place without the hassle of having to consistently backup the wallet.

Users will be able to use “One-Click Adding” feature to add multiple cryptocurrencies that will be supported in the future without additional wallet creation process.

In addition to the mnemonic method, a user will be able to use the QR Code method to backup an entire wallet. When creating the QR Code, the additional password for security measure will be added to protect the user from situations such as QR code leakage.

**Tokens Auto Discovery**

CoinUs Wallet will support the automatic token discovery of ERC20 tokens. The remaining token balance of correlated wallet addresses will be searched and automatically shown on the list of user’s assets. This feature means enhanced smart asset management for Ethereum users.

As the ERC20 token transaction history is stored in the Contract Address instead of the Normal Address, it is difficult to check for account balance unless the user uses the Contract Address directly to search transaction history.

Most wallet services do not provide ERC20 token transaction history because it requires a specialized method to extract such information. CoinUs Wallet is able to query account balance within Ethereum blockchain including all the tokens bound by Smart Contracts through an “Index” server that categorizes all the token movements and transactions related to a specific address.

When support for Qtum begins – as per our coin support roadmap - Token Auto Discovery feature will also be available for QRC20 tokens.
Explore Transaction History

In Ethereum blockchain, the status of all accounts is directly recorded within created blocks. Thus, to find out the asset associated with a specific address, one does not need to know complete transaction history. For this reason, most of the existing light-client-based wallet services do not provide transaction history.

However, from a user’s perspective, token transfer history itself is a type of asset and thus can presumed to be a critical information as well. CoinUs provides complete transaction history by utilizing the “Index” server built for Token Auto Discovery function to analyze and identify all transactions associated with the user’s address and apply data analysis logic within CoinUs wallet.

The transaction history search user interface for a particular cryptocurrency will also follow the roadmap of support for that particular cryptocurrency.

One-Pass KYC

To participate in an ICO or to increase the withdrawal limit at an overseas cryptocurrency exchange after opening up an account, KYC authentication is usually required. However, we find this repetitious process for each ICO participation or withdrawal limit increases to be very inconvenient and cumbersome for users. Needless to say, an ordinary user will find KYC authentication process very frustrating despite good intentions to shield the user from potential harm.

To minimize such inconvenient KYC authentication process, we will enable a user to reuse the previously provided KYC information to ICO issuers that request the same information set. This service - Token Launcher - will be one of the key differentiating services that CoinUs Wallet will provide.

CoinUs Token Launcher

The CoinUs Token Launcher will simplify the processes between a user and the machine (device or server) to eliminate the possibility of human errors that can occur during ICO participation. This will provide a foundation for innovative ICO issuing start-ups to grow and flourish within the blockchain ecosystem. In so doing, we plan to provide an additional channel for investing activities of our wallet users.

Benefits for ICO issuers:
- Immediate exposure and promotion venue for the proposed ICO
- Obtain verified KYC information through CoinUs Wallet
- Secure incoming cryptocurrencies from hacking: Automatically enters the ICO address that cannot be tampered

Benefits for CoinUs Wallet users:
- Obtain various and attractive ICO information, and quick and easy ICO participation
- One-Pass KYC to simplify ICO participation process and securely protect personal information
- Direct investment through CoinUs Token Launcher service
3-3. Security

A cryptocurrency wallet must protect user’s precious assets. Therefore, emphasis on security should be one of the core values that we maintain.

In addition to a security system that the hardware wallet structure provides to protect a user’s cryptocurrency asset, we will add two additional security layers to provide added protection. We further strengthen our security measure with CoinUs Keeper.

2-Factor Authentication

Authentication process by combining two or more elements is called 2-Factor Authentication (2FA). Another term in use is Multi-Factor Authentication (MFA).

Risk of authentication error declines as more information from a user is collected and combined during the verification process. Of course, this information cannot be any random information. There are standardized factors for the authentication purposes.

- Knowledge Factors
- Possession Factors
- Inherence Factors

Knowledge Factor includes a password, personal identification number (PIN) and drawing pattern.

Possession Factor is analogous to the opening door with a key. Tokens, smart cards, and credit cards are some examples. In the case of OTP authentication method widely used in the mobile environment, the possession factor corresponds to the mobile phone that you own.

Inherence Factor refers to the physical elements that an individual has been born with, such as fingerprint and iris recognition.

When creating an account for wallet, CoinUs Wallet will provide two-factor authentication: fingerprint recognition and a password or PIN. The password or PIN for the account will also be used when creating QR Code for backup.

Additionally, the CoinUs Keeper dongle will act as a Possession Factor.
Off-line Signing and Trust Zone

For all the operating software work, including CoinUs Wallet, all data must be stored in the memory. During this time, the stored data in the memory holds important security information which may get exposed to hacking.

We acknowledge the importance of securing such data hence will provide various security mechanisms to prevent such unforeseen security breach. One of the security mechanism is to disconnect the mobile device from the network while processing secure data. In other words, it physically secures data by preventing any leaks through an online connection. When data processing is completed, secure data is erased from the memory to prevent exposure.

In addition, the Trust Zone (Secure World) supported by the OS Kernel will be used to protect the process that may be vulnerable to security breaches in the existing User Mode (Normal World).

The off-line signing feature will first be supported on Android platform and then the iOS platform. Trust Zone requires support from both hardware (CPU) and OS (Android or iOS), so the feature will be supported as development environment becomes ready.
3-4. Technical Approach

We will design CoinUs Wallet by applying the best practices within the blockchain ecosystem. This approach is to provide a high level of security and to support interoperability and compatibility with current blockchain protocols, solutions, or services.

HD Wallet: Hierarchical Deterministic Wallet

CoinUs Wallet will:

- support various cryptocurrencies and tokens from one account
- support Multi-Wallet function from one account
- simplify restoration with a single backup
- provide a new, robust security solution

To accomplish the above, we will design CoinUs Wallet with a Hierarchical Deterministic Wallet (HDW) structure.

Based on the BIP39 standard, CoinUs Wallet will create 12-or-24 Mnemonic (a type of a hint word) called “Seed.” Stemming from this generated “Seed,” wallets are created through seed derivation. The process of this creation can be calculated through multiple steps. Thus it is termed Hierarchical, and calculation stems from the seed, so it is deemed Deterministic. Wallet address is not randomly created from the Seed but is already determined at the moment of seed selection through a particular calculation logic.

CoinUs Wallet can offer a single seed based multi-wallet service by adopting the concepts offered by BIP32, BIP39, and BIP44—meaning easy restore and backup of wallets without requesting additional information from the user. In addition, HD Wallet structure supports multiple blockchain protocols and guarantees compatibility with various blockchain networks and other services.
Index Server

Although blockchain technology pride itself on near-perfect protection from external hackings, blockchain-based digital asset or personal information can be exposed to risks if stored on a separate physical server. Various hackings at cryptocurrency exchanges can attest to such risk.

The information storage will be limited only to the light-client CoinUs Wallet to prevent such risk exposure. This method also enables complete control over a user’s information.

However, we will exclusively use the servers to provide general information such as app distribution, notice, exchange prices, and ICO information.

There is one more instance of when we will use the server. The server will be used to provide ERC20, QRC20 Token information using the “Index” server that will be built internally to only exchange information with the CoinUs Wallets.

This trade-off is for the usability of CoinUs Wallet, where the Indexing server will provide 1) Token Auto Discovery and 2) Explore Transaction History function within CoinUs Wallet.

In detail, the Indexing Server will, 1) conduct an in-depth analysis of all transactions in the blockchain, 2) index transfer to public address, 3) catch for token movement event, and 4) index token movement.

The above tasks are too heavy to be performed on today’s mobile devices.

Another Approach

We have yet to find a mobile-based light-client wallet that contemporaneously supports Quantum, Bitcoin, and Ethereum to the level we are planning. Even if one finds a wallet that provides similar support, there are no wallet services that provide single seed or one-time backup features in the wallet.

Our development team has the best ideas and plans to support Bitcoin and Qtum in the second quarter of this year.
We plan to provide a new powerful security solution that can be applied to cryptocurrency wallets by applying the technology of the ‘transaction-linked OTP’ from the financial services industry.

Our new security solution is “CoinUs Keeper,” a dedicated dongle for CoinUs Wallet service.

CoinUs Keeper’s purpose will be to store important information by fragmenting the information during the storage process in the Secure Element (SE) to protect individual's cryptocurrency asset in the event of loss or stolen smartphone. CoinUs Keeper will be initially configured by coupling of a unique UDID (Unique Device Identification) and CoinUs Wallet’s UUID (Universal Unique ID) which will only allow communication with the coupled wallet. One CoinUs Keeper dongle will support up to two smartphone couplings with the CoinUs Wallet app.
Protocol

CoinUs Keeper will operate on battery power and will not respond to physical button pushes until it receives a successful Transaction Request. It will send Transaction Response in response to a physical button push within one minute after receiving a Transaction Request.

In addition, if there is no communication within 5 minutes after the initial coupling completion or verification, the session will expire, and the user will have to go through the verification again. All communications will include a valid 2-byte session ID that is managed by the device, and if it is invalid, the verification process will be repeated.

By simply docking CoinUs Keeper to CoinUs Wallet app in smartphones, it will provide mobility, convenience, and stronger security measure to make CoinUs Wallet a powerful, yet versatile, a hybrid wallet that can be used in different wallet forms.

On a daily basis, a user can use CoinUs Wallet to monitor cryptocurrency asset holdings, transaction history, and price information in mobile settings and lock away CoinUs Keeper in a safe place as one would do with a cold wallet. If a user needs to make transaction or manage cryptocurrency portfolio, then the user has to simply connect CoinUs Keeper to user’s smartphone with CoinUs Wallet app.

Existing hardware or cold wallet comes in the form of USB dongle to be used only with a PC to manage cryptocurrency asset. In our view, this is a huge inconvenience that users had to endure to protect precious cryptocurrency assets. We firmly believe that CoinUs Keeper will be the revolutionary alternative to such wallets.
Future Vision

We believe that blockchain technology will be at the epicenter of the fourth industrial revolution and become a revolutionary infrastructure that will have a tremendous ripple effect on our society and economy. We plan to take a measured approach as the reality is that the blockchain ecosystem is still too dependent on possibilities. In additional, there still exists technical limitations which the industry needs to overcome to receive wider adoption.

The key factors to prepare for the Future Vision of CoinVerse are as follows.

- CoinUs ICO Listing & Incubating Program
- Innovative Technology Research & Implementation

CoinUs ICO Listing & Incubating Program

CoinUs will directly search and discover promising start-ups that can grow into innovative companies in the blockchain ecosystem. We will conduct due diligence on the potential candidate, and if the company meets our internal criteria, we will provide the details of the company to CoinUs Wallet users.

We will review the startup companies based on blockchain technology skills, vision and attainability of proposed business objectives through a team of blockchain experts. We also plan to collaborate with various companies/groups such as communities, legal and accounting firms. CoinUs also plan to make direct investments into companies that have the potential to grow into an innovative company through CoinUs Incubation Program.

To ensure that CoinVerse Ecosystem becomes autonomous and self-sustaining, successful operation of CoinUs ICO Listing & Incubating Program will be a prerequisite. This program will create a virtuous cycle of growth of the blockchain ecosystem which is our value and philosophy. We plan to transform our value and philosophy into reality.

Innovative Technology Research & Implementation

Today, there are limitations in the application of current blockchain technology to our daily lives as there are lags in transaction completion time. Many are putting efforts to develop the technology to solve these challenges. Of the currently available leading technologies, the ones that we are focusing on are 1) Lightning Network and 2) Sidechain.

1) Lightning Network

The Lightning Network technology creates a virtual channel that directly connects counterparts outside of the blockchain (off-chain). When the transaction is completed in the virtual channel, only the result gets reflected in the blockchain. This can significantly reduce the transaction cost and avoid transaction delays in the blockchain due to concurrent throughput limitations. In addition, it ensures anonymity which is a must in financial transactions.
2) Sidechain

The concept of sidechain started from the efforts to utilize the advantages offered by each blockchain protocol in a three-dimensional way. For example, a transaction is frozen in blockchain A and moved to blockchain B by creating an equivalent transaction in worth, and actual transfer of asset occurs within blockchain B. The result is then returned to blockchain A, thereby completing the original transaction in blockchain A. In other words, assets may be created within Ethereum by smart contract, and moved to Bitcoin for transactions.

Various attempts are also being made to solve the unresolved issues in the Ethereum field. Major representative projects are Raiden Network, Plasma, and Sharding.

Our short-term goal is to focus on functions that CoinUs Wallet users feel are essential. To achieve our ultimate goal, we will continue to invest, review and research innovative technologies that are currently deployed. We will also examine best practices and try to apply them to a real-world service. Based on this, we will build the CoinVerse Ecosystem which is our expanded world view that connects to the real world.
5-2. CoinVerse Ecosystem

The CoinVerse ecosystem is our view of the future blockchain world. CoinVerse will be based “Human-to-Blockchain Interface” that is human-centered and not technology-focused. Our core value is to focus on individual’s value and experience. We plan to expand our core value from individual level to community level and eventually to the rest of the world. In doing so, we want to realize ”Human-Blockchain-Universe Interface” in reality. Through CoinVerse, we plan to create autonomous, self-sustaining, and virtuous growth cycle within the blockchain ecosystem.

Core elements of CoinVerse are Cross-World Bridge Network (CBN) and CoinVerse Middleware. They are conceptual model designs of our Future Vision. We can only propose conceptual model at this point as the real-world implementation will be possible when certain technical limitations resolved and protocols stabilized.
In the meanwhile, we will continue to provide cryptocurrency wallet-focused features by applying the currently available technologies. Gradually, we will build CoinVerse Ecosystem as blockchain technology advances.

In the early stages of CoinVerse, we will deploy 1) decentralized messenger, 2) P2P transaction, and 3) decentralized exchange based on our blockchain named Cross-World Bridge Network (CBN) with CoinUs Wallet as the center of the platform.

CBN, through Smart Contracts, will convert assets into coins (BTC, ETH, ERC20, and etc.) on one-to-one exchange ratio into Quick Balance token for users. Conversion mechanism will be Atomic Swaps. All transactions that occur in CoinVerse will be recorded as an off-chain event in CBN, and Quick Balance’s assets will be converted back to the mainnet of existing cryptocurrency with one-to-one exchange ratios at the time of the user’s request. Through these off-chain transactions, CoinUs will create an ecosystem capable of conducting real-time transactions that are required in the real world as an existing cryptocurrency asset.

Afterwards, CoinVerse will then utilize CoinVerse Middleware protocol to support various Web APIs offered by internet services, bank payments, PG (Payment Gateway) connections for retail payments, and data connectivity with other back-end systems or databases. In addition, we will strive to spread the ecosystem through strategic partners from industries such as education, entertainment, and e-commerce. Off-Chain transactions will satisfy transaction demands in the real world and will further enhance the value of the cryptocurrency.

When we realize our efforts to achieve our vision, the CoinVerse Ecosystem will connect cryptocurrency world to the real world.
5-3. CNUS Token

We plan to issue an ERC-20 standard CoinUs (CNUS) tokens which will convert into Coin in the future. CNUS will be a key driver for expansion of our wallet-based expansion platform.

To use various services that CoinVerse will provide, a user will convert assets into Quick Balance within CBN. And all transactions that will occur within CoinVerse are recorded under off-chain method. Users will pay for API and gas fees to use various services with the CNUS coin or a different coin equivalent to the CNUS price at the time of use.
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Future Vision

5-4. Roadmap

2017 Q3
CoinUs Multi-Cryptocurrency Wallet Ideation

2017 Q4
- CoinUS Keeper Design & Development

2018 Q1
The Blockchain Inc.
CoinUs Wallet Launch (ETH & ERC20 Token)

2018 Q2
- CoinUs Keeper Pre-Order
- CoinUs Wallet Coin Support Expansion (BTC, BCH, LTC, QTUM, and etc.)
- Token Launcher & One-Pass KYC Service Launch

2018 Q3
CoinUs Keeper Launch
ICO Rating System Open
CoinUs Wallet Coin Support Expansion (Strategic Partners)

2018 Q4
- CoinUs Wallet Enhancement (UX&UI Improvement)
- CoinUs Keeper Overseas Business Partnership
  (Japan, China, US, and Europe)

2019 Q1
- CoinUs US Branch Establishment
  CoinVerse Development Commencement

2019 Q2
- CoinVerse Testnet Launch, Wallet, and CBN API Release

2019 Q3
- CoinVerse Mainnet Launch
  P2P Exchange Payment Gateway API

2019 Q4
- CoinVerse Ecosystem Launch
The Blockchain Inc. was formed by various experts from different industries to develop a service to enable the user to manage complex world of today’s cryptocurrency world easily. To realize our goal, we plan to introduce CoinUs Wallet app and CoinUs Keeper dongle this year. In addition, we will create autonomous self-sustaining blockchain ecosystem by practicing our core value of “Human-to-Blockchain Interface” that is human-centered and not technology-focused.

6-1. Team

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