

Gateway Protocol



Contents

1. Introduction	1
2. Gateway Protocol	5
2.1 Service Structure	5
2.2 Gateway Protocol Layered Architecture	5
2.3 Payment Module for Commerce Service	6
2.4 Supporting function related to payment	7
3. Usage Example	7
3.1 Payment SDK	7
3.2 Global Transfer	8
4. Tokenomics	8
4.1 Ecosystem	8
4.2 GWP Token Utilities	9
4.3 Token Distribution and Allocation	9
4.4 Lock up Plan	10
5. Roadmap	10
6. Legal Disclaimer	11

1. Introduction

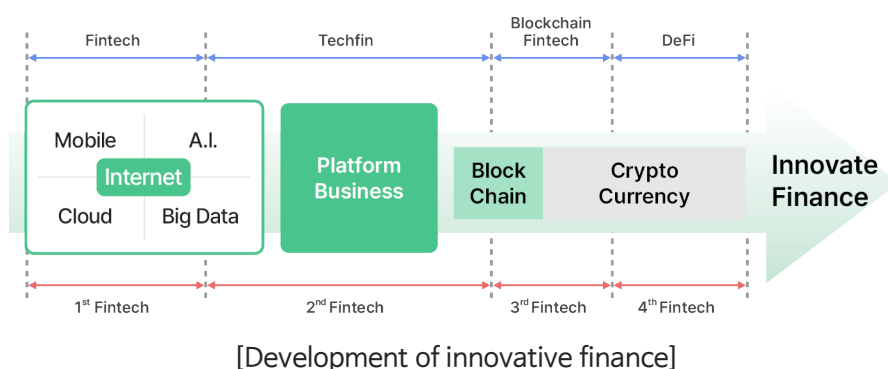
Traditional financial services have evolved into fintech services, a faster and more intelligent financial service, with the development of the Internet and mobile technologies and the emergence of cloud, big data, and artificial intelligence technologies. Fintech services have achieved a new form of innovative financial services beyond the concept of simply adding IT to existing financial services. One of the most representative examples is P2P finance (Peer to Peer Finance, online loan, and investment connection service).

In this way, the emergence of fintech achieved innovative finance by converging existing traditional financial services and creating a new type of financial service.

However, the birth of blockchain technology centered on decentralization rapidly accelerated the innovation of existing financial services, showing a different pattern from innovative finance achieved by FinTech. It is not important what financial services fused with blockchain technology will be called, but the biggest different innovation from existing fintech is the use of virtual assets in that they have innovated existing fintech services.

The so-called "digital currency," which has changed legal currency to an electronic form, has only digitally replaced the method of issuing legal currency rather than paper, and its essence itself is based on legal currency. This is another innovation following fintech in that it can change the issuance method of legal currency through blockchain technology.

Fintech, Techfin, Blockchain FinTech, DeFi, and CeFi are all other names for innovative finance that have changed traditional financial services. Expressions symbolize changes in the financial industry that vary but have never changed for at least decades.

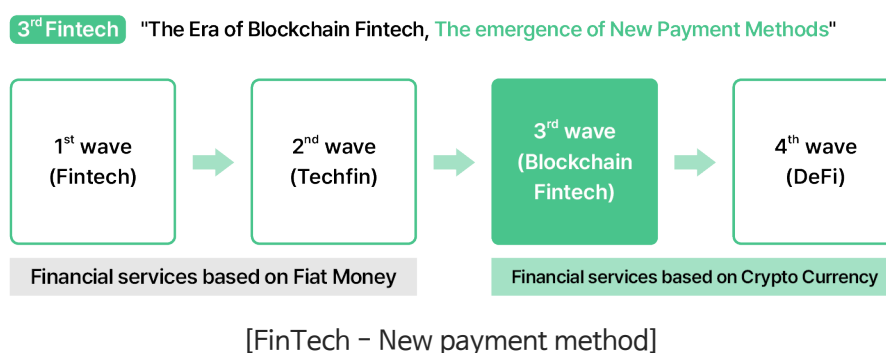


Industries are already being formed by issuing virtual assets (stable coins) that can be exchanged one-on-one with legal currency, and industrial convergence is taking place even in the issuance function of currency, which is the country's unique area. What is important is that virtual assets using blockchain technology have little boundaries between countries, so it is not easy to control policies only with one country's efforts. However, this is a global phenomenon, and its progress is too fast to ignore or turn a blind eye to virtual assets that are expanding as a means of exchanging goods in the real economy.

It was difficult to predict that Bitcoin, created using blockchain technology with the goal of a decentralized inter-personal electronic payment system, would become such an issue and spread rapidly during just 12 years of history. Blockchain technology began to change rapidly by numerous mathematicians, cryptographers, and computer scientists, and various blockchain networks applied with new mining concepts were created, along with new virtual assets.

Along with that, Crypto Economy developed. Crypto Economy is a new economic model formed through blockchain development and has continuously organized an ecosystem combined with various governance, such as how to generate profits by providing services based on Crypto Currency and how to reward participants.

In short, it can be said to be the emergence of a new payment method. In other words, in addition to the legal currency, which was almost the only payment method so far, virtual assets have begun to function as a new payment method.



However, it is still difficult for general cryptocurrency owners to fully benefit from participating in the cryptocurrency market and using it, and there are still many obstacles for cryptocurrency owners to benefit at the same level as legal currency.

As of July 2021, the number of cryptocurrencies created using blockchain technology reached 6,044. Not all cryptocurrencies were developed for the use as a means of exchange in trading, but Bitcoin, which appeared first among them, was developed to replace existing legal currencies. Meanwhile, there are still many people who question the monetary function of Bitcoin. What conditions of legal currency make it difficult to use cryptocurrency like legal currency?

The three conditions of money are as follows.

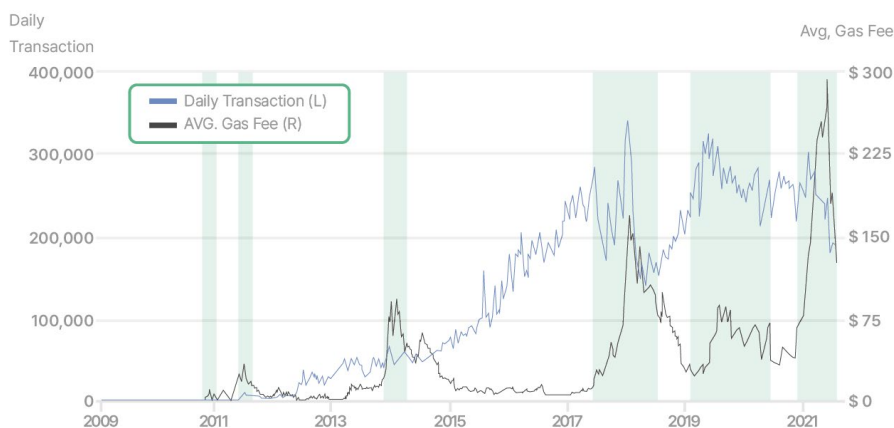
- ① Means of exchange : Money should be used as a means of exchange when exchanging goods or services.
- ② Means of storing value : The value of money must be recognized steadily over time.
- ③ Unit of Value Scale : Money should be able to measure the exchange value of goods at prices.

The Bretton Woods Conference, in 1944, set the exchange rate of USD 35 per ounce of gold, making the United States, the world's largest gold holder at the time, the center of the global economy.

If so, can it be said that cryptocurrency meets the conditions of the currency mentioned above? First, let's look at the medium of exchange. Cryptocurrency can be exchanged for legal currency such as won or dollar on online exchanges and can be freely transmitted to wallets held by other users. In this respect, it has a basic function as a medium of exchange.

However, it is difficult to see cryptocurrency as a medium for exchange because it is slow to transmit from wallet to wallet and the fee charged when transmitting is more expensive than conventional payment methods. In a virtual asset network, the more transactions there are, the more transactions waiting unprocessed. At this time, the auction method applies, and for my transaction to be processed prior to other people's transaction, must pay a higher transaction fee than others. In other words, it can be said that the transaction fee of meteorological currency increases according to the transaction amount.

In 2011, 2014, 2018, 2020, and 2021, when Bitcoin's transaction volume was increasing rapidly, the average transaction fee showed a sharp rise. This is the same in the case of using Alternative Coin, which has relatively low transaction fees and fast transaction rates. In addition, due to the focus on transaction speed, the unique characteristics of the blockchain system called decentralization are often not fully implemented.



[Bitcoin financial transaction method with blockchain]

Then, what about as a Means of storing value? Since 2009, when Bitcoin first appeared, bitcoin prices have steadily risen. On October 5, 2009, when the exchange rate for the U.S. dollar was first announced, the price of one Bitcoin was only \$0.00076, but on July 30, 2021, it was traded at around \$40,000. Although Bitcoin is digital data without a physical shape, it is recognized for its financial value due to growing demand. If value will continue to exist, Bitcoin can be used as a means of storing value.

Next, in terms of ③ the Unit of Value scale, it is important to have a certain degree of value to be used as currency, but people must feel the value stably and be able to use it for transactions. If today's currency value is significantly different from tomorrow, people may not be able to preserve the value promised by each other during the transaction process, especially if the value of the currency falls frequently, people will prefer in kind to money, and eventually consider it an investment asset to gain capital gains.

Market movements to increase total value locked (TVL) in the current token economy can eventually be applied smoothly in real life only with a connected payment module that can pay it.

Due to such a phenomenon, the most prominent emphasis in the blockchain fintech field is the payment part. Virtual assets are of economic value and are defined as electronic vouchers that can be transacted or transferred electronically. In other words, it means that virtual assets should be able to be traded in kind as they have economic value.

Now, there are so many items that can be traded with Bitcoin that even pay for the service in Bitcoin, and since 2018, virtual assets based on Altcoin have already penetrated payment methods in the real economy, and payments can be made in real life through payment operators.

As such, the phenomenon that virtual assets emerge as a new payment method in earnest is the most representative example of blockchain fintech.

Accordingly, Gateway Protocol was designed to serve as a bridge between the cryptocurrency world and the legal currency world.

Gateway Protocol is based on an open-source protocol and service platform for a system that connects legal currency and cryptocurrency and enables simple payment. Based on smart contracts and real-time transaction processing technology, it aims to help participants in the legal currency and cryptocurrency ecosystem create global payment solutions that are fast, safe, convenient, flexible, and scalable.

As such, we started a quick and accurate realistic project to apply cryptocurrency to real life.

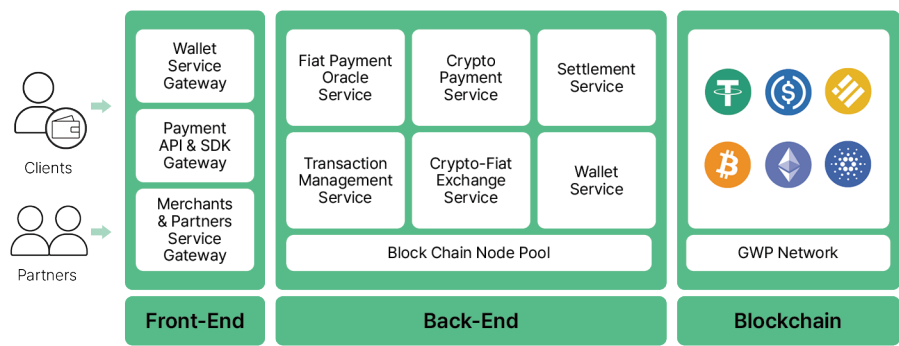
This paper explains the functions and goals of the protocol developed to facilitate the disconnected transaction of Gateway Protocol's legal currency and cryptocurrency.

2. Gateway Protocol

2.1 Service Structure

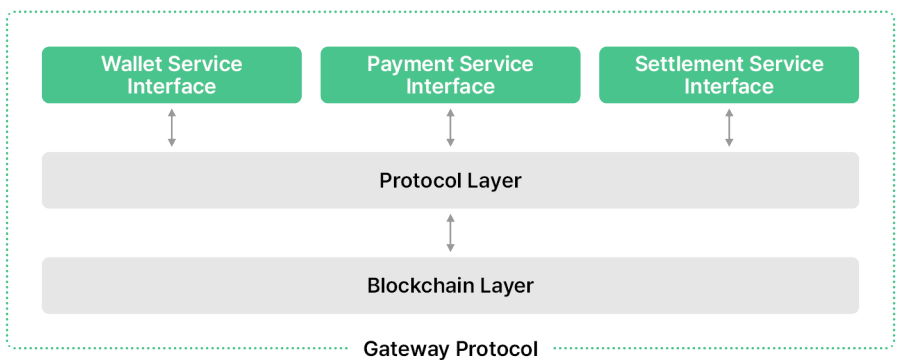
The core concept of Gateway Protocol service is to allow merchants to use legal currency and cryptocurrency payments in the same service no matter what settlement system they choose. The integrated payment system ensures transaction transparency by recording and providing data and statistics so that merchants and users can check transaction details and important information.

In addition, Gateway Protocol implements a cryptocurrency payment interface that does not lag behind legal currency payments by adopting extensive user experience in legal currency payments. By supporting various simple payment methods such as Barcode payment, and QR code payment such as MPM(Machine Presented Mode), and CPM(Customer Presented Mode), we minimize infrastructure demand such as POS from merchants, ensure an easy transition to Gateway Protocol Payment Service.



[Service Structure]

2.2 Gateway Protocol Layered Architecture



[System Architecture]

In order to proceed with safe cryptocurrency payments at merchants, organic connection between the blockchain system, which is the basis for cryptocurrency payment, and the legal currency payment system is essential. The hierarchical structure of GW Protocol has been proposed to meet these requirements. Gateway Protocol consists of three layers, a blockchain layer that stores smart contract and payment ledger, a protocol layer that serves as an API that connects the blockchain layer with the legal currency payment service, and a service layer that implements actual services using the protocol layer.

2.3 Payment Module for Commerce Service

Gateway Protocol provides developers with various application tools that can be selected for applying payment functions according to the environment, such as SDK, API, and Gateway. These powerful tools allow developers to start with a few simple steps, and control the payment process in a high level, and be provided with an appropriate level of support and access according to the developer’s proficiency in payment aspects of the development environment. The module-type mounting method makes it easy to access the commerce environment where you can purchase various products directly with coins you have. It supports various commerce platform-linked services through Gateway Protocol, and various methods such as cryptocurrency payment, subscription payment, credit payment, combined payment, and profit division can be provided to support transactions.

Smart API for Cryptocurrency	Cryptocurrency Payment Gateway	In-APP Payment SDK
<ul style="list-style-type: none">• Acceptance of cryptocurrency and legal currency.• Barcode Payment• QR Code Payment (MPM/CPM)• Cryptocurrency prepaid card	<ul style="list-style-type: none">• Online/Offline Access including SDK/Plugin/API/Gateway• GWP Network : On-Chain Environment enables Real-time payment	<ul style="list-style-type: none">• Provide Partners with in-app Payment SDK based on GWP Network

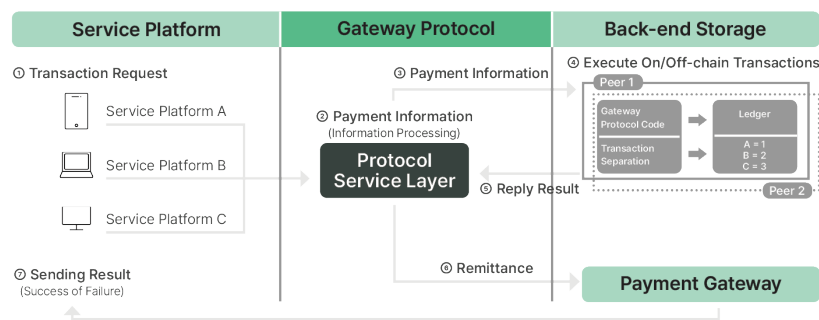
[Payment Function]

Gateway Protocol envisions a world where individuals, businesses, institutions, and governments are guaranteed greater financial authority, reliability, and transparency by technologies that bridge the gap between cryptocurrency payment systems and legal currency payment systems, regardless of their location or assets.

2.4 Supporting function related to payment

Blockchain protocols have opened amazing new ways to incentives, consensus, and assurance of transparent implementation of rules, and Gateway Protocol will take the lead in these developments.

- Reduce fees and other expenses.
- Visualized, simple and standardized smart contract interface to lower the threshold for commercial use.
- Improving operational efficiency by supporting functions such as dispute mediation / credit score evaluation / risk control / fraud prevention / clearing, etc.
- Comprehensive support for cryptocurrency payments in various transaction scenarios such as Web/App/Wallet.
- Self-evolving and communities and open ecosystems where innovative technology companies join the community and promote the development of industrial public chains.
- Strong localization compliance and anti-money laundering programs connection.

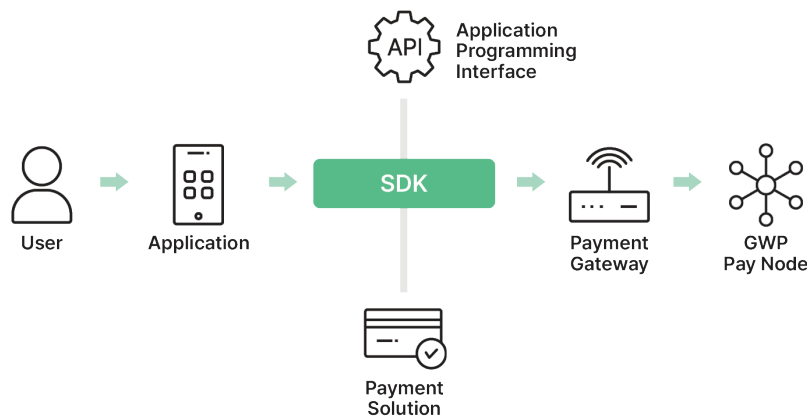


[Gateway Protocol Flow]

3. Usage Example

Through Gateway Protocol, cryptocurrency can be integrated into a global payment macroeconomy to a level that meets users' speed, convenience, safety, and security, and increase the efficiency and reliability of merchants. Gateway Protocol began with the aim of leading the development of blockchain solutions in the payment industry in the context of payment.

3.1 Payment SDK



[Application Payment Gateway Protocol Solution]

3.2 Local Currency Exchange

Gateway Protocol supports separate accounts suitable for each country's payment situation. It provides the function mitigating risks caused by exchange rate change, and empowering various roles and functions involved. For example, permits to view accounts, transaction, and the amount may be limited to collection-only or payment-only, and specific types of collection or payment for a designated account. These accounts are suitable for the international and subsidiary company and are linked to a hierarchical structure that develops accordingly, and revenue can be aggregated into appropriate accounts at the top of the organization.

Travelers from abroad, and short-period international students face local currency exchange problems. This problem is even more serious in underdeveloped countries, and in that country, it is common for currency exchange service providers to demand high fees from users. Through Gateway Protocol's solutions and numerous online/offline partner networks, users can easily exchange local currency. Gateway Protocol's solution for currency exchange merchants also includes escrow services in which customers agree to the acceptance funds for merchants after confirming their receipt of currency exchange.

4. Tokenomics

4.1 Ecosystem

Gateway Protocol's ecosystem consists of Gateway Protocol, users, business partners, and developer community alliances that operate trading service networks.

- Gateway Protocol

Gateway Protocol confirms and processes the payments and transactions, and Gateway Protocol's integration tool consists of online/offline integrated APIs, tools, and SDKs. Users can utilize all these functions by this, in online and offline apps/webs/affiliates connected to Gateway Protocol.

- User

In the Gateway protocol ecosystem, users can maximize their profits and receive various rewards through merchants and channels. This reward program aims to promote the growth and activation of the Gateway Protocol ecosystem by promoting the use and distribution of GWP tokens.

· Business Partner

Partners can easily manage promotions, check transaction details in the same environment as familiar web pages, and all managed details are linked to the Gateway Protocol network using SDK and API provided by Gateway Protocol. Gateway Protocol team plans to continue to develop third-party APIs for external participants, which not only greatly expand the functionality of Gateway Protocol, but also enable various business partners participating in Gateway Protocol to utilize their strengths to create new values and profits.

· Developer Community Alliance

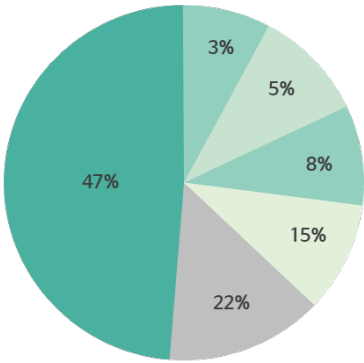
Gateway Protocol team plan to provide APIs and SDKs for online payment linkage, and developer-friendly development documents. In addition, the team will collaborate with developers in various fields such as games, e-commerce, webtoons, music, and movie contents to develop payment modules tailored to the characteristics of each industry. Gateway Protocol team will be committed to providing solutions that are immediately available in the field.

4.2 GWP Token Utilities

- Gateway Protocol Service Usage
- Locked Value of Strategic Partners
- Incentives for Ecosystem Participants
- Transaction Rewards
- Deposit and Loan in Defi Ecosystem

4.3 Token Distribution and Allocation

Name	Gateway Protocol(GWP)		
Mainnet	BEP-20		
Platform	Payment Platform supporting virtual asset payment		
Total Issuance	3,000,000,000 GWP		
Token Distribution	Investors	3%	90,000,000
	Advisor	5%	150,000,000
	Team	8%	240,000,000
	Liquidity & Marketing	15%	450,000,000
	Partnership Incentive	22%	660,000,000
	Ecosystem Incentive	47%	1,410,000,000



Name	Proportion	Contents
Investors	3%	Refers to the investors who have funded to establish the protocol and increase the value of the ecosystem
Advisor	5%	Expert advice and consulting on management and technology
Team	8%	Members and interested party who have led the project
Liquidity & Marketing	15%	Supply of initial liquidity and Marketing promotion for various events after listing
Partnership Incentive	22%	Strategic Partnership with affiliates and cooperation on business model for sustainable expansion of Gateway Protocol
Ecosystem Incentive	47%	Incentives for ecosystem participants

4.4 Lock Up Plan

- Investors : Lockup for 12 months from the date of issuance. Unlock for 12 months from 13th month, evenly.
- Team : Lockup for 24 months from the date of issuance. Unlock for 24 months from 25th month, evenly.
- Advisor : Lockup for 24 months from the date of issuance. Unlock for 24 months from 25th month, evenly.
- Partnership Incentive : Lockup for 12 months from the date of issuance. Unlock for 24 months from 13th month, evenly.

5. Roadmap

Gateway Protocol Payment Development Plan		Gateway Protocol Ecosystem Expansion Plan
Developing Gateway Protocol Payment Service	2022. 1Q	Exchange Listing
Service POC	2022. 2Q	Exchange Listing
	2022. 3Q	Exchange Listing
Launching Pilot Service operation	2022. 4Q	Service Presentation and Partner Recruitment Exchange Listing
Test Service	2023. 1Q	Open Service Development Community and user Recruitment
Launching Official Service	2023. 4Q	

6. Legal Disclaimer

The reason of writing this white paper is to share the purpose and technical orientation of Gateway Protocol at the time of writing, and it is NOT TO ENCOURAGE INVESTMENT in Gateway Protocol team or Gateway Protocol Platform. Therefore, the information including the business operation and financial status may be changed, and this white paper or website may be changed or deleted frequently.

The content of this white paper DOES NOT RESTRICT the Gateway Protocol team and is subject to change in accordance with the ongoing research and development. This white paper DOES NOT TO INTEND TO PROVIDE ADVICE ON INVESTMENT, LEGAL REGULATION OR FINANCE OR ACCOUNTING, nor does it imply an intention to provide criteria for assessing virtual assets. It is also clear that NO PART OF THIS WHITE PAPER IS CONTAIN THE INTENTION OF RECOMMENDATION.

This white paper contains forward-looking information about projects or future business prospects. These statements are not historical facts and can be identified by words "will"," forecast", "expectation", "plan", "prediction" or other similar words. These forward-looking statements are also included in presentations, interviews, videos, and other publicly available materials.

This white paper includes the future, expected performance, or achievements of the Gateway Protocol team. The statement regarding future expectations includes a variety of risks and uncertainties. This statement does not guarantee future performance and it SHOULD NOT BE OVER DEPENDENT. The actual performance and progress of the Gateway Protocol team may differ from the expectations set by the forward-looking statement.

CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR ANY INVESTMENT THAT ARISES AMID THE ABSENCE OF A FORWARD-LOOKING STATEMENT BASED ON FORWARD LOOKING INFORMATION OBTAINED FROM THE Gateway Protocol websites or other materials.

Gateway Protocol team DOES NOT GUARANTEE BACK following statements,

- 1) Whether the white paper is written on the basis of legitimate rights and does not infringe on the rights of third parties.
- 2) Whether the white paper is commercially valuable or useful.
- 3) Whether the white paper is suitable for investors to achieve a specific purpose.
- 4) Whether there is any error in the contents of the white paper.
- 5) Whether it was duly prepared and distributed under the laws of the countries of the world, and whether the contents violated the laws of the countries of the world.

In addition, the scope of exemption from liability is not limited to the above examples.

The regulatory framework applied to the blockchain technology, to the provision of virtual assets and to the platform is uncertain, and any change to regulations or policies can have a significant impact on platform development and the utility of virtual assets.

The business model using the blockchain faces uncertain regulatory environments in many countries. In the near future, various jurisdictions may adopt laws, regulations, or guidance that affect the platform, which may change the value of virtual assets. In such cases, laws, regulations, or guidance may directly and negatively affect the operation of the Gateway Protocol team. The effects of future regulatory changes are unpredictable, but they can be significant and have a real adverse effect on the development and growth of the platform, and the adoption and utility of virtual assets.

It may need to obtain licenses, permits and/or approvals (collectively 'regulatory approval') to carry out the operation business. Failure to obtain such permission with respect to the platform or failure by the relevant authorities to renew or revoke regulatory approval for any reason may adversely affect the business of the Gateway Protocol team.

There is NO GUARANTEE in the future that the authorities will not impose stricter requirements on the Gateway Protocol team or that the Gateway Protocol team will be able to adapt in timely to changing regulatory requirements. These strict regulations may limit the ability of Gateway Protocol team to operate their businesses, and if Gateway Protocol team do not comply with those requirements, they may be subject to nonconformity measures.

Furthermore, if the costs (financial or other) to comply with the newly implemented regulations exceed certain criteria, platform maintenance can no longer be carried out commercially and the Gateway Protocol team can discontinue the service. It is also unpredictable how governments or regulators will implement laws and regulations which can affect accounts distribution technologies and its applications program, including platforms and virtual assets. Gateway Protocol team may be required to discontinue operations in the jurisdictions that make it commercially impossible or undesirable to obtain the regulatory approval. Virtual assets may hold little, or no value under the circumstances described above.

No agency has officially reviewed or approved the information in this white paper, and no such action has yet been taken under any jurisdiction.

If any of the people who read this white paper use it to make their own decisions and actions, it is based on the judgment of the person, and THE RESULT OF IT IS ENTIRELY ATTRIBUTED TO THE PERSON, REGARDLESS OF PROFIT OF LOSS, and the Gateway Protocol team DO NOT BEAR ANY RESPONSIBILITY.

Any related services provided by the Gateway Protocol team are provided in a usable state, but the Gateway Protocol team do not guarantee the accessibility, quality, suitability, or completeness.

Executives and employees of the Gateway Protocol team shall not claim or make any form of statements, warranties, or promises to the entity or individuals of the integrity, accuracy and completeness of all information presented in this white paper, including relevant statements, warranties, or promises.

To the maximum extent permitted by applicable laws and regulations, the Gateway Protocol team shall not be liable for unlawful acts, contracts, or other kinds of indirect, special, accidental, consequential, or other losses (loss of revenue, use, or loss of data). Therefore, even if damages, losses, liabilities, and other damages are caused by the use of the white paper, Gateway Protocol team shall not bear any liability, compensation or other liability.

This white paper can be translated into other languages. The official source for Gateway Protocol team related information is an English white paper. The Gateway Protocol team is not responsible for the transaction of incorrect information such as omissions, transformations, or errors in some information that occurs during the translation process that has not been approved in advance. Also, in such cases, the English white paper is applied first.

The white paper may be updated in the future Please check the latest white paper on the official website. This white paper cannot be copied, used, or leaked without the consent of the author of this white paper and the Gateway Protocol team.