



White Paper

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### 1、 About Ripple Alpha

Establish financial infrastructure as a global currency and change payment methods around the world and the speed of completing transactions.

“Ripple Alpha” is a new derived crypto-currency.

It has comprehensive payment solutions equivalent to credit cards and QR code payment, Ripple Alpha individuals and companies to complete transactions instantly anywhere in the world.

“Ripple Alpha” is built based on Ripple's technology, where specific validators (approvers) add agreed transaction records.

The validator is approved by a majority vote by the association partners who belongs to the Ripple Alpha Association. The approval work performed by the validator is called ProC (Proof of Consensus). The association will be established in seven regions around the world to prevent falsification of nodes and create a system that prevents fraud. Even though it is a centralized type, by not concentrating control power in one place, it prevents the risk of bankruptcy and hacking, and keeps the server operating normally. With this mechanism, the value of “Ripple Alpha” is secured and it acts as a legal currency that can be used in any country in the world.

One of the great features of “Ripple Alpha” is the speed of completing transactions. The number of transactions per second is 1500 to 1800, and the transaction processing time is within 3.36 seconds. While building a fast and reliable system, the minimum transaction cost is as low as 0.000009XLA.

Change people's lives in various scenes, not only for cross-border transactions, but also as a new payment choice for daily activities, such as online shopping, convenience stores, taxis, and even paying for lunch with friends. That is the future role of “Ripple Alpha”.

## 2、 Market size and specialization

### Distribution volume of 14 trillion-yen, new financial services are actively used in developing countries

In Japan, although the trustworthiness had compromised after the bitcoin bubble surge soared, however, users' confidence has yet to fluctuated globally. Bitcoin's asset value has reached 14 trillion yen as of December 2019.

New virtual currencies are derived daily in the market. In 2019, Facebook, which is a part of GAFAM, is planning to publish Libra. Facebook's Libra could have a devastating impact on megabanks, and a new financial revolution is about to begin.

On the other hand, in developing countries and countries where political conditions are unstable, there are situations where the national currency cannot be relied on due to hyperinflation. When geopolitical risks occur and the economy falls into an unstable situation, it is also common to invest funds to bitcoin and other virtual currencies. In Venezuela and Turkey, virtual currencies are used as a tool to preserve value, not for speculative purposes.

In addition, although 69% of adults have bank accounts in the world, there are many people who could not setup a bank account, especially in developing countries.

Hence, in developing countries where financial services are not particularly substantial, interest in virtual currency is high from the viewpoint of financial inclusion. The need for a virtual currency that allows you to make transactions like Ripple Alpha on your smartphone is inevitably growing. Regardless of country or region, the market will continue to expand until a settlement method is established. Ripple Alpha is a virtual currency with a function that will be the optimal solution to meet the needs of such people.

Ripple Alpha's convenience is appreciated by being able to make transactions instantly like cash and credit cards rather than a service that takes time to complete like Bitcoin, and this will continue to spread among people in the future.

### 3、 Market trends

Increased reliability in proportion to the spread, becoming indispensable to people's lives, and the market will expand in the future

A virtual currency that is an asset class that has gained a lot of attention for investment purposes or a bubble-like rise. In December 2017 and January 2018, it showed an unusually high price, and after that it came to a crash. In December 2019, it was stabilized in the range of 7000 USD to 8000 USD per BTC.

The market value of cryptocurrencies currently on the market is around 14.80 trillion yen for Bitcoin, about 1.7 trillion yen for Ethereum, and about 1 trillion yen for Ripple.

The market trend has declined in 2018 but solidified the lower price, reversed in 2019, and once again saw a surge to 13,000 USD, it reminded us that the virtual currency market has a future. This is also a proof that the many advanced technologies used in cryptocurrency are truly valuable. Various projects are being developed daily, and it is not difficult to imagine that this field will continue to grow.

As such, the virtual currency is not expected to end with a temporary boom, and will continue to grow. Although the market scale has shrunk slightly compared to the past, the volume is still strong as an asset class, and reliability and the latest technology are its backbone. It will continue to attract attention as a financial product in the future, and it can be said that a currency with solid technology and purpose, just like Ripple Alpha.

#### 4、Ripple Alpha features

Equipped with excellent functions for completing transactions. Cryptocurrency that enables speedy transactions at low cost

The Ripple Alpha's transfer speed is completed within 3.36 seconds. It's obvious that this is performing better than major cryptocurrencies such as Bitcoin, Ethereum and Bitcoin Cash. The transaction fee is very low at about 0.00028USD, and transactions can be processed from 1500 to 1800 per second.

The outline of Ripple Alpha is as follows:

Issuance limit: 5 billion

Transaction processing time 3.36 seconds

Number of transactions processed per second 1500-1800

Minimum transaction cost 0.000009 XLA

Consensus algorithm PoC (Proof of Consensus)

The ability to complete transactions at such a low cost is also an attempt to provide a new protocol for the roles that banks have undertaken.

Traditionally, in order to transfer funds by bank, there are many limitations and restrictions by the banks. However, with Ripple Alpha, there is no limit on the amount for the transactions, also, it allows for large transactions across borders. In addition, it is not limited by time constraints, the transactions could be processed immediately 24/7 throughout the year.

With these functions, it is the best method for completing transactions. For people who do not have a bank account, it can be used like a bank, and large settlements using BtoB can greatly reduce costs, and even for small settlements such as BtoC, it is convenient from the viewpoint of storing accounts receivable and preserving value. It will be something that demonstrates.

"Ripple Alpha Association" that preserves and maintain the value of Ripple Alpha

Ripple Alpha can demonstrate these characteristics because Ripple Alpha is a centralized virtual currency and is based on a transparent management entity. Unlike Bitcoin, Ripple Alpha has an administrative body called the "Ripple Alpha Association".

The Ripple Alpha Association's mission is to use Ripple Alpha around the world through the construction of a simple global currency and financial infrastructure.

The "Ripple Alpha Association" will secure operating funds by releasing it to the market slowly each year. Since it is not a business organization, there are no continuous sales.

The Ripple Alpha Association will work with its association partners to achieve Ripple Alpha's mission. An association partner is an organization that aims to promote economic inclusion, or a company or developer who wants to contribute to the development of applications or tools, also seeking for a close partnership.

In order for Ripple Alpha to expand globally, we call on companies and individuals who have the proper qualifications as new partners to join the association. In order to be selected as an association partner, at least one-third of all partners must vote when joining a new association, and all association partners participate in the vote. All association partners will be announced to ensure transparency.

The Ripple Alpha Society is managed and overseen by the Association Partners. By working with Ripple Alpha Association and partners, we will increase the number of association partners and strengthen governance, aiming to grow the network and to become a global organization.

These are the features that Ripple Alpha differ from other virtual currencies.

## 5、 Future planning

### Established associations in seven regions around the world distributed globally as a stable currency

Ripple Alpha builds a payment infrastructure in every region of the world and manages it to operate safely and professionally.

Crypto currencies that can be stored in a wallet using a smartphone and can be used anywhere in the world as long as you have a terminal.

Transactions are not distributed processing by blockchain technology, but are agreed by a majority of approvers called “validators” managed and certified by the Ripple Alpha Association. Most of the processing is done on a server managed by the Ripple Alpha Association, which speeds up processing and reduces costs.

Ripple Alpha Association will be established in 7 regions within 3 years, to achieve globalization. The region is distributed across seven associations in Asia Oceania, China, Russia, Europe, America / Canada, Latin America and Africa.

Unlike other projects, Ripple Alpha aims to be a user-centric virtual currency. This prevents damage from attacks such as bankruptcy and hacking, while ensuring transparency as an association and leads to the reliability that the association managing the ledger has no risk of rewriting the ledger conveniently. Despite this centralized structure, Ripple Alpha gains unwavering trust through a system that does not consolidate rights in one place and always seeks agreement from validators.

The number of Ripple Alpha issued is limited to 5 billion. We do not make inexhaustible mining possible, but limit its number to make its value universal.

The Ripple Alpha Society will not monopolize Ripple Alpha and will continue to distribute it over the next few years.

As a distribution method, it is handed over in the form of cooperation expenses to the activities of companies and developers who are members of the Ripple Alpha Association. Specifically, if you hold an event or study meeting about Ripple Alpha, the association will compensate Ripple Alpha for the expenses. Organizers who receive Ripple Alpha will sell it on the market and get funds for the event. Organizers and associations publicize their activities and make information widely available.

Through such activities through companies, developers and influencers, Ripple Alpha will eventually be used as a payment method such as VISA and MasterCard, or as a virtual currency specializing in payments that do not fluctuate like dollars and yen.



## 6、Ripple Alpha Association Management Policy

Maintaining transparency, strengthening governance, and developing infrastructure to enjoy convenience and versatility anywhere in the world

The Ripple Alpha Association is aiming to “cryptocurrency that enhances the versatility and convenience of Ripple Alpha and enables easy settlement in daily life”.

The mission is to spread this virtual currency all over the world.

Association partners aim for close relationships and partnerships with organizations, companies and developers who want to contribute to the development of organizations, applications and tools whose goal is to promote economic inclusion to achieve their mission.

The Ripple Alpha Association has the following operating policies:

- Network operation with authorized validator nodes
- Managed and supervised by the founding partner of the Ripple Alpha Association
- All association partners announced to ensure transparency
- Grow the network and increase more association partners
- Become a global organization by strengthening governance

In order to be selected as an association partner, you must be a company and developer that supports the Ripple Alpha Association's management policy and can continue to work together for the goal. Applicants must confirm that they comply with the eligibility criteria and submit a request for new membership.

When new association partners join, all existing association partners will participate and vote. The applicant requires to gain at least one third of the votes to be admitted as a new member.

All association partners, including companies and developers elected as association partners, will be publicized to maintain transparency in association operations.

An association partner who is already an association partner but deviates from the eligibility criteria will be removed from the association partner if a majority vote is obtained.

Ripple Alpha Association partners have the following roles:

① New Association Partner

To become an association partner, the applicant needs to get at least one third votes from all existing members.

② Removal of association partners

Association partners may remove association partners that do not comply with eligibility criteria by majority vote.

③ Expansion of association partners

Encourage qualified stakeholders to join a new association partner so that Ripple Alpha can expand globally.

The above is the operating policy of the Ripple Alpha Association. The purpose is to apply these operating policies appropriately, strengthen governance, and continuously disclose the value of Ripple Alpha and distribute it to the market. At the same time, the infrastructure will be improved continuously.

## 7、 Time schedule

