# NGO

# NGO MANAGEMENT PROTOCOL

(January 2018)

# White Paper

# SUMMARY

The NGO Management Protocol ("NGOMP") is the world's first blockchain technology-based management protocol especially developed for NGOs. The protocol adopts an intelligent contract mechanism, and constructs a universal digital asset token for NGOs (known as "NGOT") through blockchain technology and digital capitalization.

NGOMP aims to achieve an integrated development mechanism through blockchain technology and digital capitalization, enhance the dynamism of NGOs, maximize resources sharing, promote the orderly and fast development of the NGO sector, and make concerted efforts to build a harmonious and prosperous global NGO ecosystem.

NGOMP is a kind of flexible consensus mechanism created for the entire NGO ecosystem based on the intelligent contract model and in relation to NGOs' specific attributes of management, structure, system, mode and other aspects. It is a bourse and trading protocol for NGOs in the blockchain world. In addition, through data feed design and realization, NGOMP becomes a bridge which connects NGOs with the real business world.

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# I. Introduction to the Project

## 1. Industrial Background

Non-Government Organization ("NGO") refers to chambers of commerce, associations, learned society-type mass organizations, foundations, private non-enterprise units and other nonprofit non-governmental organizations which possess legal person qualification in a specific legal system. Currently, there are more than 700,000 social organizations registered with the civil affairs departments in China. These social organizations have hundreds of millions of members, with a total asset of more than RMB1 trillion. By comparison, there are over 2 million NGOs with more than $500 billion in total operational funds in the United States. With the development of social democracy and the continuous deepening of their assumption of government functions, NGOs have entered a stage of normal development in China in recent years. The number of NGOs in China now grows at an annual rate of 10%, and a good development momentum of "big society, small government" has formed.

Blockchain is a distributed database system and serves as "an open ledger" to store and manage transactions. Every record in the database is referred to as a block, and contains transaction time stamp, link of the previous block and other detailed information. This makes it impossible for anyone

to retrospectively alter the recorded information. In addition, because the same transaction is recorded in several distributed database systems, the technology is designed to be secure. Given this situation, the blockchain is immutable. However, as long as there exists a network, the information of blockchain will remain in the same state.

What is the relationship between blockchain technology and bitcoin? Blockchain technology is the underlying technology of bitcoin. It abstractly extracts bitcoin technology, which is called blockchain technology or distributed ledger technology. As the blockchain of its underlying architecture technology, bitcoin leverages its decentralization, unforgeability, openness & transparency, distributed accounting, untamperability, intelligent contract and other features to present to people a possibility of value transmission without an intermediary. According to forecast, data in blockchains have a value of trillions of US dollars, because blockchains will continue to be applied in banking, micro payment, remittance and other financial services. In fact, the value of blockchain ledgers may be worth 20% of the big data market by 2030, with an annual revenue of $100 billion. In this respect, this potential income is more than the revenues currently generated by Visa, Mastercard, PayPal and other financial payment tools. Big data analysis is vitally important for tracking these activities and can help organizations use blockchain to make more informed decisions.

## 2. Why Design a NGO Management Protocol?

As a bridge and link between the government and enterprises, NGOs can only play limited roles due to their organizational nature, role orientation, funding channels, institutional framework and other issues. In the future, NGOs should draw upon advanced management ideas, achieve organizational development through commerce and obtain benefits through services. The improvement plan put forward by the NGOMP is as follows:

● Decentralized organization: Break information barriers between NGOs, establish integrated development mechanisms, and increase flexibility.

● Community-based operations: Build online and offline interactive platforms, and adopt all forms of multi-channel interaction among NGOs to ensure full information communication and circulation, and enhance cohesion.

● Fund-based governance: Through fund-based operations, improve the governance structure, better provide diversified services for members, and get income.

● Commonweal development: The purpose of NGOs achieving organizational development through commerce is to reduce the pressure of members, better serve members through market-oriented means, and take from members and pay back to members.

● Resources integration: Through concerted cooperation between NGOs, integrate the resources of enterprises, the business circles, the technology community and the government, maximize resources sharing, make the most efficient use of resources and realize coordinated social development.

**3. Vision of NGOMP**

NGOMP is committed to the innovation of NGO communities, third party developers and technology and the establishment of an open-source NGO community ecosystem with global influence. The ultimate objective is to integrate blockchain into social networking, commerce, finance, government and other different sectors. What NGOMP aims to build is an inclusive NGO ecosystem, and a bridge between blockchain and the real business world through the integration of regulatory logic.

**Technological innovation**: NGOMP is to build a secure, reliable platform which is compatible with Ethereum community systems. Through technological and conceptual innovation, it will connect on-chain with off-chain and the inside and outside of organizations.

**Sustainable development:** To realize the sustainable development of NGOs and avoid loose development structures and scattered underlying frameworks, NGOMP will establish a sound management framework for

the management of general anecdotes, code management, financial management, pay management, scope of privileges and other items. Meanwhile, the management framework will be constantly updated with the development of NGOs and communities and integrated with supervisory and audit functions, rules formulation, alteration control management, and other aspects.

**Business applications:** With reference to the practice of investment banks, NGOMP will conduct industry analysis and screening, and select appropriate industry organizations to promote the application of NGOMP technology so as to enable NGOs to undertake development and application work on the ecosystem chain. Meanwhile, this will push forward the sustainable development of NGOMP.

**Partners:** Through the full collaboration of partners, NGOMP will integrate the resources of enterprises, the business circles, the technology community and the government; maximize resources sharing; make the most efficient use of resources and realize coordinated social development.

## II. Blockchain Protocol Designed for NGO Applications

NGOMP is the world's first blockchain technology-based management protocol especially developed for NGOs. The protocol adopts an intelligent contract mechanism, and constructs a universal digital asset

token for NGOs (known as "NGOT") through blockchain technology and digital capitalization. NGO Token is a common token in the NGO ecosystem. Each NGO can also issue its own crypto tokens through NGOMP. These crypto tokens can act as an effective tool to manage NGOs in various aspects, be it membership fee payment, project earnings, encouraging members to participate in community building, safeguarding organizational credibility, truthfulness and validity of voting content, and so on. The crypto tokens can also be exchanged to NGO Token for use in the entire NGO ecosystem for the purposes of communication, collaboration, exchanges and integration between different NGOs, thus integrating the resources of enterprises, the business circles, the technology and the government and making maximal use of the value of resources.

## III. Operational Mechanisms of NGOMP

**1. Tokens Issued Based on NGOMP:**

(1) NGO Token: "NGOT" in short, this is the common token based on the current protocol. NGOTs can be exchanged with member tokens (MT) issued by NGOs, or be used as a reserve by NGOs.

(2) Member Token: "MT" in short. Each NGO can issue its own MTs for internal circulation in accordance with the protocol. MTs can be traded with NGOTs according to the protocol:

●MT has the self-destruction function. If the MT at a certain address has no trading within one year, it will be automatically reduced to 0.008MT.

● Members must keep a minimum balance of 0.008 MT after they have MT. This balance cannot be transferred, traded or destroyed.

(3) Member Communication Token: MCMT in Short, it is used to express members' degree of activity in the organization. No issuance is required for MCMT. Rather, it is automatically obtained according to the rules: When a chamber of commerce or a person with a contributing value initiates an exchange and others confirm their participation, the initiator will get 2 exchange values, and the participants obtain 1 MCMT.

(4) Member Contribution Token: "MCBT" in short, it is used to express members' degree of contribution inside the organization and NGO's operational status. No issuance is required for MCBT. Rather, it is automatically obtained according to the rules:

●Members:

-When donating MT to an NGO, members will get an equivalent amount of MCBT.

-NGOs may apply to allocate their own MCBTs to members, and begin to issue the MCBTs after 80% people with the contributed value have voted for it.

-If the MCBT does not grow within one year, it will be halved one year later.

●NGOs:

-When members donate MT to an NGO, the NGO will concurrently get MCBT which is equivalent to the value of the donation.

-When the MCBTs of a chamber of commerce member is halved, the MCBTs of the chamber of commerce will be reduced by an equal amount and it can become a negative number.

## 2. Roles in NGOMP

**NGOs:**

NGOs issue their own MTs. The total amount of MTs issued by each organization is kept at a constant amount of 150 million. If the MT issued by an NGO in accordance with NGOMP is XXMT, its total amount will be 150 million.

When an NGO receives donated MT, it will automatically get an equal amount of MCBT.

NGOs may apply to allocate their MCBTs to members who own MCBT.

NGOs may initiate MT-, MCMT- or MCBT-based voting.

NGOs may automatically trade their own MTs based on the protocol.

NGOs may store NGOTs as the reserve token.

Members:

Members in the broad sense: People who own a certain MT

Buy, sell, and donate MTs, obtain MCBT, participate in exchanges and obtain MCMT, and vote based on token, exchange value or contributed value.

Members in the narrow sense: Members who own MTs and whose MCBT reaches a certain value.

Include all the functions of members in the broad sense, and members who have obtained MCBT may initiate exchanges.

## 3. Exchange Rules of NGOT:

All chamber of commerce tokens can be exchanged with NGOT. The exchange price is the exchange protocol. The exchange price ratio of MT is:

$$MT/NGOT = \left(\frac{\sum_{n=1}^{365} C_n}{\sum_{n=1}^{365} V_n} + \frac{\sum_{n=1}^{30} C_n}{\sum_{n=1}^{30} V_n}\right) / 2 \times 10$$

Wherein:

Cn denotes the NGOTs which an NGO gets through MT exchange on a certain day.

Vn denotes all the NGOTs which all NGOs get through MT exchange on a certain day.

$\frac{\sum_{n=1}^{365} C_n}{\sum_{n=1}^{365} V_n}$ is the overall value of MT;   $\frac{\sum_{n=1}^{30} C_n}{\sum_{n=1}^{30} V_n}$ is the latest value of MT.

## 4. Protection Mechanism of NGOMP

After the issuance of MT, NGOs can set the MT/NGOT exchange price on their own.

One month after the issuance of MT, the MT/NGOT exchange price will be decided by the protocol.

## 5. Update and Iteration of NGOMP

Code is law, and law will evolve.

The protocol can be updated after adoption by 80% of NGO Token holders through voting.

# IV. Features of NGOMP

NGOMP is a kind of flexible consensus mechanism created for the entire NGO ecosystem based on the intelligent contract model and in relation to NGOs' specific attributes of management, structure, system, mode and other aspects. It is a bourse and trading protocol for NGOs in the blockchain world. In addition, through data feed design and realization, NGOMP becomes a bridge which connects NGOs with the real business world.

1. Introduce a newly designed decentralized master contract which accords with the natural decentralization attributes of NGOs. Take the joint input of off-chain data and on-chain data as the triggering condition to complete the execution of the contract, and improve the management efficiency, membership adhesion and operational capacity of NGOs.

2. A flexible consensus mechanism for NGOs worldwide which breaks the information barriers of NGOs to achieve the overlapping and repeated use of networking, resources, business information and other core values, expand the circles of NGOs and get more returns.

3. Provide an optional identification module to guarantee the identity authentication and authenticity of NGOs. Meanwhile, add membership identification marks to enhance members' sense of affiliation, and each member's identity and conduct records will be kept permanently.

4. A compliant intelligent management mechanism can efficiently supervise and guide the daily management and operation of NGOs, and issue intelligent early warnings to reduce operational risks. Meanwhile, the more open and transparent mechanism will help to expand the numbers of NGOs.

5. A decentralized open source collaboration platform which builds a bridge and link for communication and collaboration among different NGOs, increases the frequency of exchanges and cooperation, speeds up

the circulation of NGO Token, and generates higher value premium effects.

6. A digital token asset circulation platform. Based on NGOMP, each NGO can issue their own tokens and use them as the medium and exchange item for internal and cross-organizational collaboration. The tokens possess an investment attribute and can increase asset quantity and long-term asset value, thus completing interaction between NGOs and the real business world.

# V. Basic Applications of NGOMP

Based on NGOMP, it is possible to build the world's first community ecosystem-based SaaS platform for NGO management and provide a secure data bearer for NGOs, and adopt an "SaaS platform + mobile App" model to change the organizational management mode and improve work efficiency and member adhesion. Based on NGOMP, each NGO will generate an exclusive mobile-end platform which concurrently possesses SaaS and social networking attributes, as well as publicity, exhibition, routine office, membership management, IM, membership fee call, online payment and other functions, thus completing an integrated business and financial data management system.

**1. NGO internal management**

Support the release of news, notices, announcements, business opportunities, developments and other daily NGO items, while connecting with video conferencing, live broadcasting and other functions. Members can participate in real-time interaction and voting, thus creating a continuously evolving, easy-to-use, low-cost and moderately customized NGO blockchain network.

## 2. Exchange Between Members

Based on the registration information of NGO members, automatically match with and recommend connected contacts in the ecosystem. It is also possible to make accurate searches according to different screening dimensions and expand members' contact circles and social networking breadth.

## 3. NGO Event Management

When NGOs release event information, organize votes, initiate exchanges and so on, NGOMP can automatically generate events into interesting H5 animation pages for free sharing. Meanwhile, NGOMP also supports a series of intelligent functions, such as online registration for events, payment, check-in, automatic user group creation and so on.

## 4. Communication among NGOs

Break the information barriers of individual NGO, achieve effective and smooth integration and communication and create a function management-based, social and win-win online NGO ecosystem, thus

establishing a complete and interconnected global NGO ecosystem and ultimately creating more business value.

**5. NGO Knowledge Sharing Economy**

By introducing value exchange and bifurcation mechanisms, it is possible to achieve the multiple realizations of the knowledge and experience of experts and scholars of each NGO through the ways of sharing and help seeking, and provide broader business prospects for every NGO and its members.
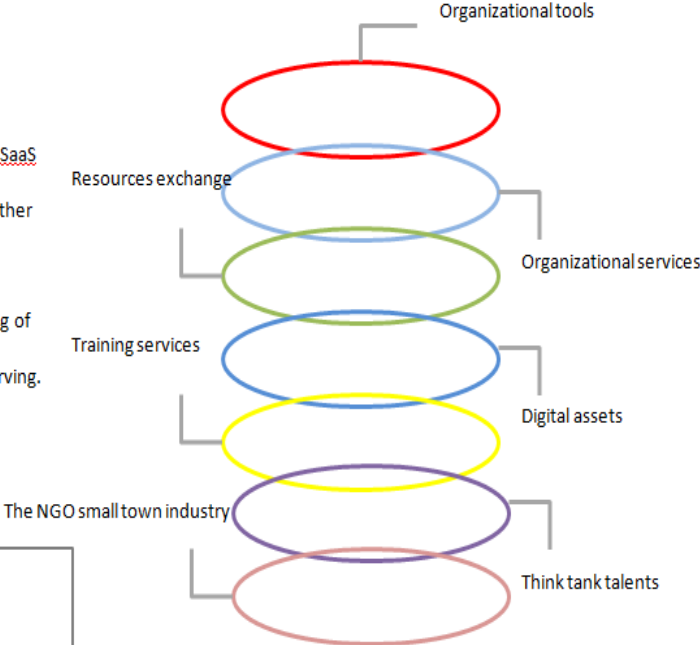
# VI. The NGOMP Ecosystem

The NGOMP ecosystem adopts an advanced technical architecture, divides into parallel layers according to a layered pattern, and carries out in-depth optimization combining with actual business scenarios. Through cluster deployment, it improves system response capability. With NGOMP, NGOs can achieve information sharing, user interaction, communication of business opportunity and other ways of integration to form a function management-based, social and multi-win-win online NGO ecosystem, thus establishing a complete and interconnected global NGO ecosystem and ultimately creating more business value.

## Seven Ecosystem Applications of the NGO Token Protocol

Relationships among the 7 ecosystem applications:

The organization tool chain is the input or output of NGOs' daily data.
The organizational service chain fulfills demand under scenarios through SaaS tool.
The resource exchange chain is the sharing of contacts, knowledge and other resources among organizations.
The digital asset chain consists of the circulation rules and protocols on collaboration among NGOs
The training service chain involves the introduction, training and reserving of talents for NGOs.
The think tank talent chain is a link to the NGO experts and scholars reserving.
The NGO town chain is a protocol-based offline gathering place.

Organizational tools

Resources exchange

Organizational services

Training services

Digital assets

The NGO small town industry

Think tank talents

| | |
|---|---|
| 🟥 | Provide NGOs with SaaS management tools |
| 🟦 | Through service, the protocol records the behavior data of NGOs |
| 🟩 | Accurate docking and exchanging of resources through records |
| 🟦 | Digital assets are used as a medium of exchange |
| 🟨 | Talent training and reserving provide a source power for NGOs |
| 🟪 | Think tanks provide a driving force for industry development through knowledge and experience sharing |
| 🟫 | Offline towns carry out specific work for industry revitalization |

# VII. The Core Team

## Shen Liang:

Co-Founder, Former CTO, Senior President of Okdi、MerriChat、

HuDongBa，Across social etc. Experienced in e-commerce, blockchain,

Search engine Algorithims, business intelligence, O2O, short video, cloud

computing, good at high concurrency, high-performance instant

messaging and real-time communication architectures, and Big data

**Liu Xiang:**

Co-Founder, a Master of Huazhong University of Science and

Technology, senior engineer & system architect at Microsoft, leading

creator and developer of Android Cortana, and core developer of Bing

Search and Azure Cloud Service

**Wang Huan:**

Co-Founder, successively served as senior product manager at Publicis

Groupe and CBS Corporation, with rich experience and unique ideas in

fashion, sociality and e-commerce.

**Zhao Mobing:**

Co-Founder,specializes in marketing and public relations in the Internet

industry & former marketing leader at Mercedes-Benz and Cadillac.

**Liu Faqiang:**

Co-Founder,Worked for BlueFocus Digital Marketing Agency, Asia's

largest PR consultancy company, serving such famous brands as Baidu,

UNDP and WWF.

## VIII. Chief Advisors



Takemorikou Hayashi

President of Japan Society for the Promotion of Culture



Gu Chaoqing

President of Business Association of China in Vietnam



John Denton

First Vice President of International Chamber of Commerce (ICC)



Ake Weyler

President of Swedish Textile Importers Association

Brendan Hoare

President of Organics Aotearoa New Zealand

Vijay Kalantri

President of All India Association of Industries

Patrick Blain

President of the International Organization of Motor Vehicle

Manufacturers (OICA)

Jack Gerard

CEO of the American Petroleum Institute

Carma Elliot CMG OBE

President of British Council



Matthias Wissmann

President of German Automobile Industry Association (VDA)



Ricardo Monti

President of Italian Trade Commission



Mario

President of Brazilian Feed Industry Association



Orlando Hernández Guillén

President of Chamber of Commerce of Cuba

Bhalakula

President of Thai-Chinese Culture and Economy Association

# IX. Project Plan

## 1. NGOMP Token Issuance Plan

NGOT is to be issued based on Ethereum. The total amount is 1.5 billion.

## 2. Token Allocation

| No. | Item | Percentage | Remarks |
|---|---|---|---|
| 1 | Foundation | 25% | Brand construction and operational promotion of the platform, including the continuous promotion and popularization of the NGOMP platform in traditional industries and the blockchain industry, so as to ensure that the platform can get market recognition and accumulate trading users quickly. |
| 2 | Team | 20% | Team operating costs and rewards for important contributing members. |

| 3 | Communi ty rewards | 15% | Rewards for outstanding code contributors in the community; volunteers promoting community ecosystem services, etc. |
|---|---|---|---|
| 4 | Angel fund | 10% | Feedback to early supporters |
| 5 | Private placement | 30% | Used to enhance the NGO ecosystem. |

## 3. Project plan

March 2018: Complete token issuance and NGOMP

May 2018: Complete the development of NGOMP APP v1.0

June 2018: Complete the application of NGOMP in 10 NGOs

December 2018: Improve the NGOMP application ecosystem and put

NGOMP online at around 100 NGOs

2019: Upgrade NGOMP and duly develop NGO ecosystem blockchain