## **GAChain The Revolutionary of Blockchain**

#### SHENZHEN GACHAIN TECHNOLOGY CO., LTD

Aug,2018



## OAChain Brief Introduction

- GAChain is a primary case of the research and study by the Ministry of Industry and Information Technology, written and rewarded in the "2018 China Blockchain Industry White Paper" On May 2018.
- GAChain is the world-first public blockchain in the world that owns sovereign hierarchical management ecosystem, realizing decentralization and centralization management in transaction.
- GAChain is a new blockchain underlying protocol based on the consensus mechanism of DPoVE (Delegated Prove of Valued of Ecosystem). To meet the requirements of government, business, and regulator, the "smart contract" mechanism is created to place them in the framework of law. The authorization of the formulation of smart contract is owned by various government departments and respective agencies, making a blockchain a ecosystem of commercial/financial and businesses, guided and supervised by the government.



## **O** SHENZHEN GACHAIN TECHONOLOGY CO.,LTD



GAChain, as a primary project being researched and studied by the Ministry of Industry and Information Technology of China and written in the "White Paper of China's Blockchain Industry in 2018". GAChain is the first public blockchain in the world that owns sovereign hierarchical management ecosystem, realizing decentralization and centralization management in transaction. GAChain is a new blockchain underlying protocol based on the consensus mechanism of DPoVE (Delegated Prove of Valued of Ecosystem). To meet the requirements of government, business, and regulator, the "smart contracts" mechanism is created to place them in the framework of law. The authorization of the formulation of smart contracts is owned by various government departments and respective agencies, making a blockchain ecosystem of, commercial, and financial businesses, guided and supervised by the government.

O History of Blockchain : With the rapid development of digital currency like Bitcoin and Ethereum, the underlying blockchain technique has gradually received more attention, especially the merit of distributed storage and decentralization





O The difficulties of blockchain in practice: low efficiency, hard to adapt to existing IT framework, advantages are hard to reveal



## **O** The purpose of GAChain

Develop the public blockchain that can suitable for traditional applications in all industries
 Blockchain as a Service (BaaS)



## • Features of GAChain: to achieve a safe and credible political and enterprise integration platform

utilizing management centralization and business decentralization .



# • Data sharing (traditional character) : the costs of construction, modification, operation and maintenance continually increase, management being complex, along with interface stability, data accuracy and ownership, and transmission security can not be guaranteed.

End-to-End Method

Data Bus Method

Hierarchical Reporting Method





• Data sharing (GAChain character) : Naturally–owned data sharing; Costs reduction of IT construction and maintenance; Guarantee the accuracy, security, tamper-proof and traceability of data.





**Sovereign hierarchical management**: Support vertical authorization for multiple applications within the organization, and horizontal authorization across organizations to ensure centralized control of applications and access rights of data.

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• **Tamper-proof**: ensure data security by warning mechanism and prevent tampering in advance and afterwards.



O Traceability : based on smart contract and tamper-proof mechanism, ensure the traceability of transaction and data.



## • High frequency process of transaction, within safe and reliable system.



GAChain utilizes Full-Node and Sub-Node separation architecture. The Sub-Node carries the transaction, and the Full-Node plays the role of disaster recovery and the data synchronization, which realizes multiple activities, disaster recovery, and supports high concurrency;

# Standard architecture of GAChain application : self-independent development framework, development language, and database components; easy operation for all users of

GAChain to implement application development, testing, deployment and data storage.





### 0 Integrate the traditional / existing system with GAChain: zero code modification;

low energy consumption of probes; fast-gained advantage of blockchain.



**Data storage selectively in blockchain:** critical data will be stored in chain; others can be hash-encrypted, while the hash values are stored in chain, and data is stored locally and related to hashed values.

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**Unified platform entrance**: provide unified portal, access right, single sign-on capability to effectively reduce IT construction and maintenance costs.





**Resource Directory sharing system**: standardize resource directory, establish sharing channel, improve the utility of IT resource.

Θ





# **Smart transaction process mechanism:** efficient execution of smart contract; standardization coding of smart contract; set-up smart contract security inspection mechanism;

guarantee the safe and efficient operation of smart contract in chain;





## Virtual Dedicated Ecosystems (VDE) : a standard ecosystem, that interact the data in and out of the chain to realize the function of cross-chain.







## **GAChain:** Target Industry









NetEase Tokyo



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 Online administrative examination and approval service platform of Government of Nansha, Guangzhou (the display page of log-in)

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## Online administrative examination and approval service platform

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#### Set-up page

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## Online administrative examination and approval service platform ( the display page of set-up )

### Workflow set-up

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## YouKe for Netease(Tokyo) (the display page of log-in)





Defect of society service: information supervision has been deficient, people strongly demand a professional/credible/ authoritative service platform



The society service on GAChain: utilize the advantage of GAChain, develop a platform of secure/credible/ authoritative





# Advantage of YouKe: tamper-proof/data containable and secure/traceable make a reliable platform





Identity Verification of YouKe: visiting via Wechat, bounded with Wechat account, guarantee data secure and tamper-proof

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Service ecosystem of YouKe : make service post/rating/improvement in closed-loop management, realize self-operation, improve service and user experience





## Display page of enterprise on YouKe



- Green

## Display page of enterprise on YouKe: Post info by enterprise

🖾 担当照片

点击图片左侧选择按钮,选择公司列表左侧头像展示图片











担当联系方式

\***手机号码1:** 13980229187 〇 +添加





## Display page on YouKe: service catalogue







## Display page on YouKe : rating and review by customer



GIGINAL

# The UI framework of GAChain: create/edit/design page and style under application freely by user

#### **Default Interface : display selected page**

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### **Develop Interface : code editing**

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#### **Editer Interface : page editing**

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### Visualized Interface : develop visualization





### O The smart contract development framework of GAChain:

create/edit/trace smart contract under selected application freely by user

### **Default Interface : display selected table**

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### **Develop Interface : code editing**

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#### **Modifying Field : modify field properties**

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#### Creating new contract : smart contract coding page

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O The database development framework of GAChain: create/edit/retrieve database under application freely by user

#### **Default Interface : display selected table**

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#### Modifying Field : modify field properties

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