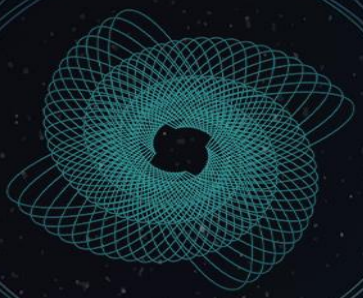
Edge Smart Chain



Advanced Decentralized for Web 3.0 Network infrastructure with unlimited data flow

Edge Smart Chain

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Introduction

The Edge Smart Chain project aims to explore and realize the combination of edge computing and blockchain technology to solve some challenges and limitations in the traditional cloud computing environment. By deploying blockchain nodes and smart contracts on edge devices, we can build a decentralized, secure and trusted edge computing network to realize distributed collaboration and resource sharing between devices.

1. Project overview

Our project aims to combine edge computing with blockchain technology to build a decentralized, secure and trusted edge computing network. By deploying blockchain nodes and smart contracts on edge devices (smart mobile devices), we realize distributed collaboration and resource sharing among devices.

In our application, edge devices can securely interact directly and share computing resources, storage space, and data processing capabilities. Records of these interactions and resource sharing are kept on the blockchain, ensuring the credibility and transparency of the interactions.

By combining edge computing with blockchain, we solve some problems in the traditional cloud computing environment. First, we provide faster data processing and response times, reducing reliance on centralized cloud servers. Second, we have enhanced data security and privacy protection, ensuring the security of interaction and data sharing through the immutability of blockchain and the programmability of smart contracts. Finally, we facilitate resource sharing and collaboration among edge devices, improve resource utilization, and provide devices with more computing power.

Our project is not just a technical exercise, but a groundbreaking solution that enables more efficient, secure and trusted computing environments for businesses and individuals. We believe that the integration of edge computing and blockchain will promote the development of the digital economy and bring positive impacts to society.

2. Project goals

1. Build an edge computing network: Edge Smart builds a distributed edge computing network by deploying blockchain nodes on edge devices. This will provide faster data processing and response times, and reduce reliance on centralized cloud servers.

2. Realize resource sharing: use smart contracts and blockchain technology to realize resource sharing between edge devices. Including computing resources, storage space, bandwidth, etc. This will improve resource utilization and provide more computing power to the device.

3. Improve data security: Through the non-tamperable modification of blockchain and the programmability of smart contracts, the security of interaction and data sharing between edge devices is ensured. This will prevent potential data tampering and malicious attacks.

4. Promote the application of edge computing and blockchain: promote the application of edge computing and blockchain through the development and deployment of practical application scenarios. This may cover the Internet of Things, smart cities, industrial automation, healthcare, etc., providing more efficient, secure and trusted solutions for these areas.

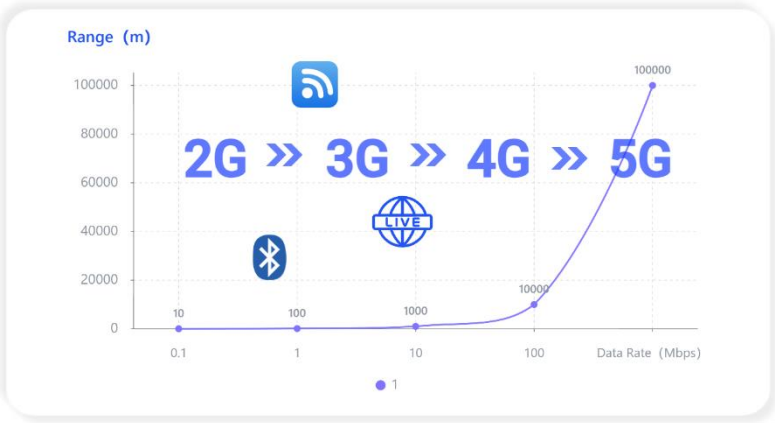
5. Academic research and knowledge contribution: The project will actively participate in academic research in related fields and contribute to the development of edge computing and blockchain. We will share project experience and technical achievements, and promote exchanges and cooperation between academia and industry.

Through the edge computing and blockchain fusion application project, we will open up new possibilities in the field of edge computing and blockchain, and provide enterprises and individuals with a more efficient, secure and credible computing environment. We believe the combination of this technology will drive the development of the digital economy and bring positive impact to society.

3. Project background

1. The rise of edge computing: Edge computing is a computing model that pushes computing power and data storage to the edge of the network. With the development of technologies such as the Internet of Things, artificial intelligence, and big data, more and more devices and sensors generate a large amount of data, which needs to be processed and analyzed in real time closer to the user. Edge computing offers faster data transfer speeds, lower latency, and a better user experience.

2. Application expansion of blockchain: Blockchain technology, as a decentralized, safe and credible distributed ledger technology, was initially widely used in the field of cryptocurrency. However, over time, the scope of blockchain applications has gradually expanded to supply chain management, digital identity verification, IoT security, and more. The immutability, decentralization and programmability of smart contracts of the blockchain provide a more secure, reliable and transparent environment for edge computing.



3. The importance of data privacy and security: As data continues to grow and flow, data privacy and security have become important concerns. Traditional cloud computing models may have security risks such as data leakage, man-in-the-middle attacks, and data tampering. Edge computing combined with blockchain technology can provide a higher level of data security, ensure data integrity and confidentiality, and enhance users' trust in data privacy.

4. The needs of vertical industries: Many vertical industries, such as the Internet of Things, smart cities, industrial automation, healthcare, etc., have put forward urgent needs for the combination of edge computing and blockchain. These industries require real-time data processing and analysis capabilities to improve efficiency, reduce costs, and ensure data security and credibility. The fusion of edge computing and blockchain provides innovative solutions for these industries.

5. Technological progress and standardization: The continuous progress and standardization of edge computing and blockchain technology are key factors driving the development of the industry. With the maturity of hardware and software technology, the computing power and storage capacity of edge devices have been improved. At the same time, blockchain technology is constantly evolving and improving to meet the needs of different industries.

6. Distributed evolution of network topology: The traditional centralized computing model has problems of single point of failure and performance bottleneck. The integration of edge computing and blockchain promotes the distributed evolution of network topology. By deploying blockchain

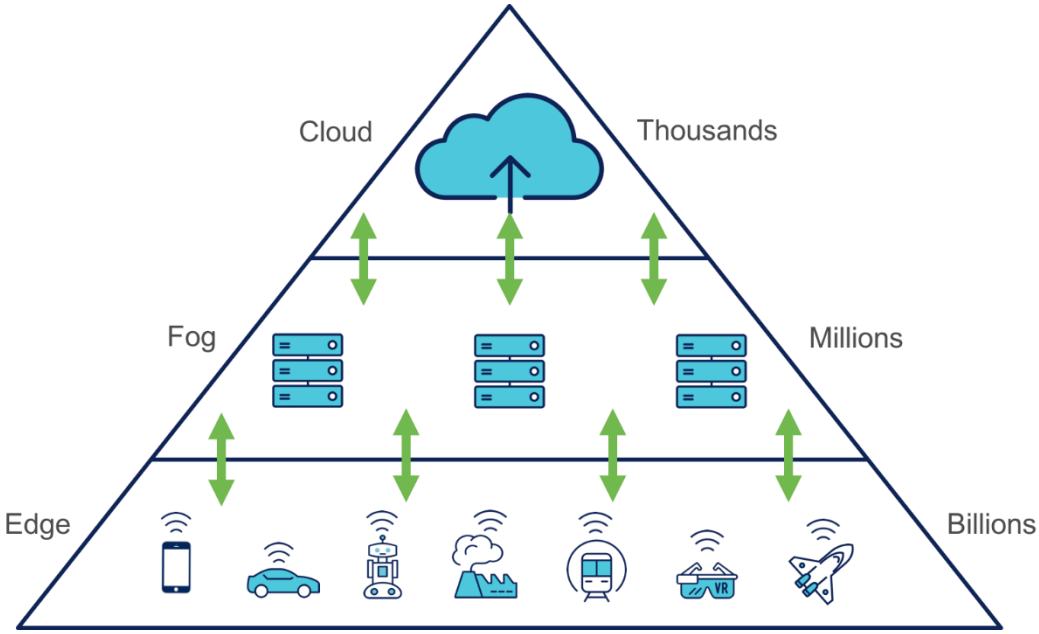
nodes on edge devices, computing and storage tasks can be distributed to the edge of the network, reducing the burden on the central server and improving the reliability and scalability of the overall system.

7. Enhanced autonomy and self-government: The combination of edge computing and blockchain provides more autonomy and self-government for devices and users. Through smart contracts, edge devices can directly negotiate and interact without relying on the control of a central server. This decentralized approach increases the flexibility and controllability of the system, enabling devices to make decisions and perform tasks more autonomously.

8. Economic benefits and cost advantages: The combination of edge computing and blockchain can bring economic benefits and cost advantages. The idle computing resources and storage space of edge devices can be rewarded through mining and other methods, improving resource utilization and reducing costs. In addition, through the decentralized structure, the maintenance and operation costs of the central server can be reduced.

9. Data compliance and regulatory requirements: With the strengthening of data compliance and regulatory requirements, the integration of edge computing and blockchain can provide better solutions. The immutability and traceability of the blockchain make data auditing and compliance easier and meet regulatory agencies' requirements for data privacy and security.

Edge Smart Chain's integration of edge computing and blockchain has broad prospects for development, and can bring a more efficient, secure and credible computing environment to various industries. It can not only solve some of the challenges and limitations in the traditional cloud computing environment, but also promote the development of the digital economy and promote innovation and growth.



4. Project components and work

Components:

In the platform of Edge Smart Chain, the following main components are usually included:

1. Edge computing node: An edge computing node refers to a computing unit deployed on an edge device. They are responsible for performing edge computing tasks, processing data and providing computing resources. Edge computing nodes can be smartphones, IoT devices, servers, etc., with certain computing power and storage resources.

2. Blockchain network: The blockchain network is a distributed network composed of multiple nodes for storing and managing transaction data and smart contracts. The blockchain network ensures data security and reliability, and provides decentralized transaction verification and consensus mechanisms. Common blockchain networks include Ethereum, Hyperledger Fabric, etc.

3. Smart contract: A smart contract is a programmatically defined automated contract code that is deployed on the blockchain for execution. They are used to manage and execute transaction logic, including resource sharing, interaction and transactions between devices. Smart contracts ensure the reliability and transparency of transactions, and automatically execute related operations according to preset conditions.

4. Client application: The client application is the software installed on the user's device to interact with the edge computing and blockchain platform. They provide a user interface that enables users to manage and monitor their edge devices, initiate resource sharing requests, view transaction records, and more. Client applications can be mobile applications, web applications or desktop applications.

5. Network communication protocol: The network communication protocol is used for communication and data transmission between devices. They ensure reliable connectivity between edge devices and nodes, and provide data encryption and security protection. Common network communication protocols include HTTP, WebSocket, MQTT, etc.

6. Data storage system: The data storage system is used to store transaction data, smart contracts and other related information. It can be a distributed database, file system, or object storage, etc., to ensure data persistence and high availability.

These components together form the infrastructure of edge computing combined with blockchain platform. They work together to realize distributed collaboration, resource sharing and transactions between devices, and provide secure, trusted and efficient edge computing services.

Role:

1. Edge devices: Edge devices are the basic components of the entire platform, and they can be smartphones, sensors, IoT devices, or other devices with computing and communication capabilities. Edge devices participate in the workflow of edge computing and blockchain by providing computing resources, storage space, and data processing capabilities.

2. Network node: The network node is an intermediate node connecting the edge device and the blockchain network. They are responsible for managing and maintaining the operation of the edge computing network, and forwarding requests and interactions between devices to the appropriate nodes. Network nodes can be servers, routers or other network devices.

3. Blockchain node: A blockchain node is a device or server that participates in a blockchain network. They store and maintain a complete copy of the blockchain and participate in the blockchain's consensus algorithm and transaction verification. Information exchange and synchronization are performed between blockchain nodes through a point-to-point communication protocol.

4. Smart contracts: Smart contracts are automated contracts that programmatically define and execute transaction and contract logic. They run on the blockchain and perform corresponding actions according to predetermined conditions and rules. In a platform where edge computing is combined with blockchain, smart contracts are used to manage interactions between devices, resource sharing, and transactions.

5. Platform managers: Platform managers are entities or organizations responsible for managing and operating edge computing combined with blockchain platforms. They are responsible for formulating the rules and policies of the platform, coordinating the work of various roles, solving problems in the operation of the platform, and promoting the development and growth of the platform.

These roles work together to build a decentralized edge computing and blockchain integration platform to realize distributed collaboration and resource sharing between devices. They jointly promote the operation and development of the platform, providing users with efficient, secure and credible edge computing services.

Workflow:

The workflow of edge computing combined with blockchain is as follows:

1. Edge device registration: Edge devices (smart mobile terminals) first need to be registered in the Edge Smart edge computing network. Device owners store device information and authentication credentials on the blockchain to ensure device trustworthiness and security.

2. Resource sharing request: Edge devices can send resource sharing requests to other devices through smart contracts. For example, device A may need additional computing resources to perform a certain task, and it can send requests to other devices in the network.

3. Smart contract execution: The device that receives the resource sharing request decides whether to accept the request according to the rules and conditions defined in the smart contract. Smart contracts can include interaction logic between devices, resource allocation rules, and transaction conditions.

4. Resource sharing confirmation: Once the resource sharing request is accepted, resource sharing between devices begins. For example, device B can allocate a part of computing resources to device A, and record this

interaction process through the blockchain.

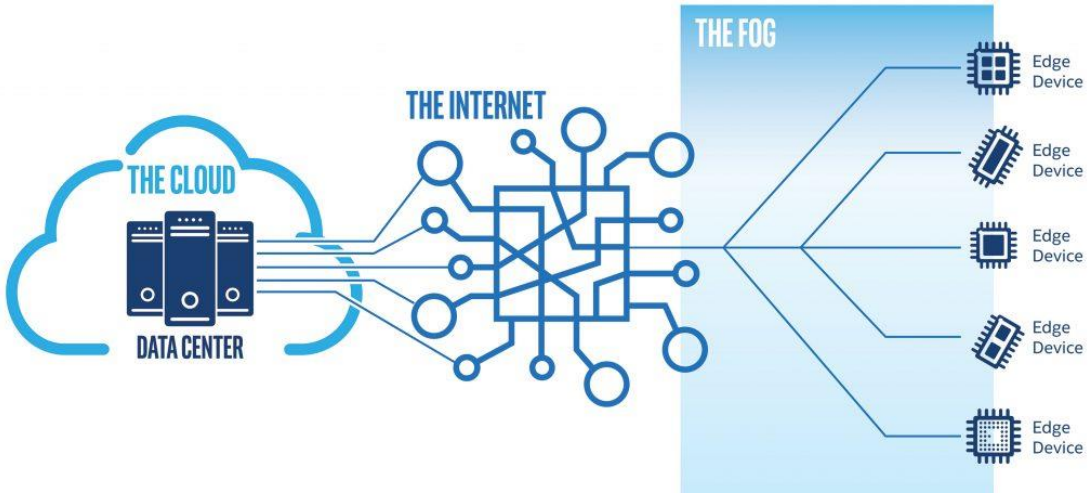
5. Interaction and data transmission: Necessary interaction and data transmission are performed between device A and device B to complete resource sharing tasks. This can involve operations such as the transfer of data, the collaboration of computations, or the sharing of storage.

6. Transaction recording and verification: All interactions and resource sharing operations will be recorded on the Edge Smart blockchain to ensure the credibility and transparency of transactions. The conditions and rules in the smart contract will be used to verify and confirm the legitimacy of the transaction.

7. Settlement and incentive mechanism: According to the incentive mechanism defined in the smart contract, devices participating in resource sharing can receive corresponding rewards or payments. This can include monetary rewards, token distributions, or other forms of value exchange.

8. Security and privacy protection: Edge computing combined with blockchain technology can provide higher security and privacy protection. The decentralization and immutability of blockchain ensures the security of transactions, while the programmability of smart contracts can ensure data privacy and access control.

Edge Smart combines blockchain through edge computing, and devices can safely interact and share resources directly to build a decentralized edge computing network. This combination provides devices with more computing resources, storage space, and data processing capabilities, while improving system security and reliability.



5. Function and Governance Token-(ESC)

ESC is the native utility and governance token of the Edge Smart Chain blockchain. it is The main modes of payment network transaction fees and reward distribution:
Sharded storage and edge computing provided by participants to the network. ESC is also It can be used as an edge device to request another device to provide computing resources, storage space or data processing capabilities. These requests and shared resources will be recorded on the blockchain through smart contracts, ensuring the credibility and transparency of interactions.
In short, the utility of ESC is as follows:
- Payment of transaction fees on the ESC network;
- Reward distributed shard storage and edge computing;
- Ensure distributed governance of the ESC network.
-Metaverse ecological application

Proof of Storage Space——Proof of Space T(POST)

POST is the settlement and value-added service fee currency used for basic storage space, and the PoST distributed shared storage network of Edge Smart Chain. It is important to note that the price and value of POST will be pegged to a high-volume stablecoin such as USDT or BUSD in the future. POST has no limit or maximum supply. POST can only be cast by converting ESC.

The relationship between ESC and POST in Edge Smart Chain network:
ESC initial allocation Initial allocation of ESCs to key stakeholder groups, establishing The foundation of ecosystems and networks.

Total ESC: 19,980,000

- 100% output through PoST mining

6. Token Burning Mechanism

Edge Smart Chain adopts a deflationary model to deal with token dilution through inflation. The deflation model includes a variety of mechanisms, such as ESC halving mechanism, pledge mechanism, repurchase and destruction mechanism. The ESC halving mechanism is implemented to limit the total supply of ESC tokens. The cumulative effective storage of ESC tokens is halved and the network space reaches 500 EB. This will cause the exchange rate to drop the relationship between sharing, the amount of leased storage space, and ESC, and will adjust the reward network nodes. The guarantee mechanism requires the service provider to promise the same amount.

two. consensus mechanism

Edge Smart Chain brings together a combination of three consensus mechanisms, giving each participant in the edge network a reward.

1. PoS (Proof of Stake)

PoS proves that by selecting Edge Smart Chain nodes based on a specific algorithm among all candidates Nodes that execute block generation transactions are safe and fair, while earning PoST rewards.

Edge Smart Chain implements a unique PoS consensus mechanism. Instead of relying on a single node to generate blocks, Edge Smart Chain uses super nodes located at different levels of the infrastructure to generate blocks, improving the overall processing efficiency of the blockchain. This approach ensures that confirmation time and block generation time are essentially the same, resulting in an efficient and lean system.

2. Proof of Space T (PoST)

The exclusive PoST mechanism uses storage space to prove the workload. Edge devices (smart devices) can allocate storage space to data processing tasks and provide storage data transaction proofs to participate in the mining process.

The Proof of Space T (PoST) consensus is the consensus protocol of the Edge Smart Chain network. It is designed to be flexible and versatile, better integrated with actual data storage enterprises. The main goal of the PoST consensus is to incentivize storage node providers
, Node users actively provide real storage services, linking incentives with actual work done.
In general, the PoST consensus provides a more flexible and general consensus protocol, which better meets the integration with real data storage business. Grant rewards encourage storage node providers to actively provide real storage services, while service incentives provide economic vitality for the Edge Smart Chain network.

3. AI Edge Verification

AI Edge verifiers verify the authenticity of space and bandwidth of all storage service providers and node users in the network to eliminate false capacity and bandwidth claims and ensure the validity, continuity and reliability of network computing power. Validators will be dedicated to their efforts to secure the network. These mechanisms are designed to ensure that the network operates efficiently and securely, while preventing any "bad actors" from manipulating the network.

The advantage of AI Edge block verification is that it can use machine learning and deep learning algorithms to process a large amount of transaction and block data to improve the efficiency and accuracy of verification. It can help reduce the workload and calculation of node audits, and improve the speed of transaction processing and the security of the overall system. However, it should be noted that AI Edge block verification also needs to be used in conjunction with other consensus mechanisms (such as proof of work, proof of stake, etc.) to ensure the security and consistency of the entire blockchain network.

4.Uniqueness of Edge Smart Chain

This approach can bridge the gap between off-chain services and on-chain rewards. By combining these mechanisms, users and participants can access a secure environment to store and access data and information, while service providers and node users can choose the contributions they want to make in exchange for the rewards they want. In this way, Edge Smart Chain is creating a more inclusive and flexible ecosystem where participants can benefit from a wide range of services, depending on their individual needs and preferences.

three. On-chain penalties

For Edge Smart Chain, individuals have positive incentives to participate in the network, making their resources a node, thereby increasing the network effect and Nakamoto index. Additionally, bad actors face fines levied on them by the negative incentive network in the form of.

1. PoS penalties

The stability of the entire network is maintained by PoS, which means that ESC nodes are responsible for any double signature, failure or other

misbehavior through slashing. To be eligible to generate blocks, each node is assigned a PoS stake score that monitors its canonical behavior on-chain. If an ESC node shows misbehavior, such as missing blocks, its stake score will decrease. If a node's penalty score exceeds 30, it will not be eligible to participate in block generation and elections. To restore its eligibility, a node must reset its stake score by paying the appropriate penalty amount.

2. Storage resource verification penalty

The behavior of all service providers who provide effective storage resources is important to the entire ecosystem. Service providers who engage in malicious behavior will have their stake and appropriate slash rewards. PoV validators will be responsible for storage and bandwidth verification. Storage resource validation penalties consist of two levels of checks:

- storage penalty

Storage resource providers are obliged to keep online every day and provide evidence of storage space during the challenge period. If daily storage
Validating below 80% of staked storage, suppliers will be excluded from the PoST reward calculation for the day. If storage service providers fail to meet storage verification requirements for 30 consecutive days, their staked ESC and locked PoST rewards will be slashed. To resume participation, providers must make new investments. If there is a PoST contract associated with the provider, they will be penalized and the user will be compensated According to the contract termination rules, the contract will be terminated.

- Bandwidth penalty

Check the bandwidth of the storage resource provider every day. If the verified bandwidth is lower than 80% of the promised bandwidth, the provider will not
Eligible for PoST rewards of the day. If a provider fails bandwidth verification for 30 consecutive days, their staked ESC and locked PoST or PoST rewards will be slashed. To resume participation, providers must make new stakes. exist
If the PoC contract is associated with the penalized node, the user will receive compensation according to the contract termination rules and the contract will be terminated. It is important to note that failing validation for bandwidth or storage will result in penalties.

3. PoST storage service penalty

Ensure uninterrupted and 24x7 availability of consumer data, storage resources Providers are obliged to abide by signed usage contracts. To enforce this, the penalty mechanism is established as follows:

- Contract liquidated damages

If the storage service contract signed by the provider fails to be verified, the consensus protocol will identify poor quality of service. Finally, resource providers will not receive ESC rewards for this contract.

4. Edge Smart Chain improvement suggestions

Edge Smart Chain Improvement Proposals (UIPs) are the process of specifying criteria for potential new features or Edge Smart Chain networks. The UIP contains the following technical specifications to propose changes to the Edge Smart Chain as a transparent and fair on-chain process. Holders of any ESC token can propose or vote on existing, active change proposals on the Edge Smart Chain by submitting new ones. The fee to submit a new proposal is 1ESC, while the fee to vote on a proposal is set by the proposer.

Four. Node rewards and distribution to delegators

The two types of rewards for validators are:

(1) base reward (newly minted ESC) and (2) fees collected from transactions per block. Validators can decide how much to give back to delegators who delegate their ESC or hash power. These validators are incentivized to greatly reward their delegators to attract more hash power and stake. After collecting their fees, the protocol uses a function to determine the validator's staking reward and hash power The distribution between rewards, defined as:

$rH = rHp/tHp * m/S * R$ (2)
$rS = rSp/tSp * (1 - m)/S * R$ (3)

Where:
rH = validator reward due to hash power
rS = validator reward due to staking
R = total reward attributed to all delegators

rHu = rH/rHp (4)
rSu = rS/rSp (5)

Where:
rHu = validator hash power reward per unit
rSu = validator staking reward per unit

Note that these features are intended to create an active market for rewards and encourage competition among validator sets for delegated hash power and delegated stake. Through the same mechanism, delegators will try to optimize their own rewards by selecting validators with lower delegated hash power and stake.

Application examples of node rewards and distribution

Suppose there are 2 validators and both are elected:

A: 2 units of computing power, 1 unit of equity
B: 1 computing power unit, 4 equity units
Let's also assume that there is a total of 10 units of BTC computing power on the core network, so validator 1 owns 20% of the computing power and validator 2 owns 10%. Similarly, we assume that there are 20 stake units on the ESC network, so validator 1 has 5% stake and validator 2 has 20% stake. For this example, we also set m to 2/3.
For computational simplicity, we set the number of rewards to be split between the two validators to 1.

Fraction:
SA = 2/10 * 2/3 + 1/20 * 1/3 = 9/60 (6)
SB = 1/10 * 2/3 + 2/10 * 1/3 = 8/60 (7)

award:
rHA = (2/10 * 2/3)/SA = 8/9 (8)
rSA = (1/20 * 1/3)/SA = 1/9 (9)
rHB = (1/10 * 2/3)/SB = 1/2 (10)
rSB = (2/10 * 1/3)/SB = 1/2 (11)

Rewards per unit:
rHuA = rHA/2 = 4/9 (12)

rSuA = rSA/1 = 1/9 (13)
rHuB = rHB/1 = 1/2 (14)
rSuB = rSB/4 = 1/8 (15)

relay reward
Relayers earn part of the base system rewards and transaction fees for cross-chain communication. Relay rewards are distributed in batches every 100 Edge Smart Chain blocks. Relayers receive rewards on a regular basis.

five. Advantages of project edge computing mining

1. Reduce network latency

Edge computing mining transfers mining tasks from centralized cloud servers to edge devices for processing. This reduces the delay in data transmission and increases the efficiency of the mining process. Edge devices are usually located closer to users or data sources, so they can respond to mining tasks faster and reduce the impact of network latency on mining speed.

2. Improve resource utilization

edge devices usually have a lot of idle computing resources and storage space. Through edge computing mining, these idle resources can be used for mining tasks to maximize resource utilization. This not only improves the efficiency of edge devices, but also reduces the dependence on centralized servers, reducing energy consumption and maintenance costs.

3. Enhance network security

Edge computing mining reduces dependence on centralized servers by distributing mining tasks to edge devices. This distributed mining method improves the security of the network, because it is difficult for attackers to concentrate on attacking a single central node. In addition, edge devices can adopt secure communication protocols and encryption technologies to ensure the security of data transmission and calculation during mining.

4. Provide better user experience

Edge computing mining assigns mining tasks to edge devices closer to users, which can reduce network congestion and bottlenecks, provide faster response time and more stable mining experience. Users can see mining results faster and enjoy higher transaction confirmation speed.

5. Promote the development of edge computing

Edge computing mining encourages the participation and contribution of edge devices. This will promote the development of edge computing networks, increase the number and coverage of edge devices, and build a more powerful edge computing infrastructure. This is important to support IoT, smart cities and other edge computing applications.

In general, using edge computing mining can reduce network latency, improve resource utilization, enhance network security, and provide a better user experience. This distributed mining method helps to promote the development of edge computing.

six. Edge Smart Chain ensures the security of the project

1. Cryptography technology

Cryptography technology is used to ensure the confidentiality and integrity of data. Use technologies such as public and private key encryption algorithms, digital signatures, and hash functions to encrypt and verify data to prevent unauthorized access and tampering.

2. AI smart contract audit

AI Edge conducts a comprehensive audit of smart contracts to find potential loopholes and security risks. Check the contract code through methods such as static analysis, code review, and fuzz testing, and Edge Smart will automatically fix the problems found according to the vulnerabilities to ensure the security of the smart contract.

3. Access control and authentication

Establish a strict access control mechanism, and Edge Smart restricts only authenticated users from accessing Edge Smart Chain and related resources. Use technologies like multi-factor authentication, AI, access tokens, and permission management to ensure only authorized users can take actions.

4. AI Edge security audit and monitoring

AI Edge security audit and monitoring system will monitor the security status of the network and applications in real time. Through monitoring abnormal activities, network traffic analysis, intrusion detection and other means to detect security threats in time, and automatically take corresponding measures to deal with them.

5. Decentralization and consensus mechanism

Edge Smart Chain adopts decentralization, PoS, PoST consensus mechanism and AI Edge to ensure data consistency and security among multiple nodes in the network. Through distributed ledgers and consensus algorithms, the collapse or attack of a single node is prevented from affecting the entire network.

6. Edge Smart update and upgrade

Edge Smart will automatically update and upgrade blockchain software, smart contracts and related components in a timely manner, and automatically fix known security holes and weaknesses. Keep Edge Smart's technology stack and dependent libraries up-to-date to reduce security risks.

seven. Features of Edge Smart Chain project

1. Self-identity and traceability

Blockchain can provide edge devices with self-identity and traceability. Each device can have a unique identity, and use blockchain for identity verification and traceability, thereby ensuring the credibility and integrity

of devices and data in the network.

2. Distributed collaboration and sharing economy

Edge computing and blockchain can facilitate distributed collaboration and resource sharing among devices. Through smart contracts and blockchain technology, edge devices can safely interact directly and share computing resources, storage space, etc., thereby building a decentralized edge computing network.

3. Data security and privacy protection

Edge computing can process and analyze data on edge devices without having to transmit sensitive data to the cloud. The decentralization and encryption features of the blockchain can ensure the security and privacy protection of data during transmission and storage.

4. Innov ation and cooperation opportunities

Through Edge Smart, users can cooperate and communicate with each other. This brings opportunities for innovation and collaboration for individuals, businesses, etc., promoting knowledge sharing and technological advancement.

5. Sustainable development

Edge Smart reduces energy consumption and environmental impact through efficient use of computing resources. This helps to promote sustainable development, in line with the concept of environmental protection and green mining.

6. Super intelligent algorithm optimization

Edge Smart Chain introduces advanced intelligent algorithm optimization technology, through intelligent scheduling and resource allocation of mining tasks, to maximize mining efficiency and revenue. These intelligent algorithms can analyze market conditions in real time, adjust mining strategies, and automatically optimize mining operations, enabling users to achieve excellent performance in the mining process.

7. De-trust and verifiability

Blockchain technology can provide verifiable and de-trust features for edge computing scenarios. By storing the calculation results and data of edge devices on the blockchain, the traceability and verifiability of the calculation results can be ensured, thereby increasing trust in the calculation process.

8. Autonomous participation

Blockchain projects provide participants with the opportunity to participate autonomously. Computing power providers can freely choose to participate in the project, and rent or share computing power according to their own conditions and advantages. The demand side can choose a suitable computing power provider according to their own needs.

9. Data privacy and security

Blockchain projects focus on data privacy and security. Through the characteristics of encryption and distributed storage, user data is protected, and only authorized computing power providers can access the data. This mechanism of protecting user privacy and data security increases the trust of participants.

10. Service-level agreements and payment mechanisms

Edge computing and blockchain can combine to automate service-level agreements and payment mechanisms. Through smart contracts and blockchain technology, automated transactions and payments between edge devices can be realized to ensure fair and reliable interactions between service providers and users.

11. Incentive mechanism

The Edge Smart project adopts an incentive mechanism to encourage computing power providers to participate and contribute through token rewards and economic incentives. This incentive mechanism can stimulate the enthusiasm of participants and improve the quality and efficiency of the overall computing power.

12. Community consensus and governance

Blockchain projects usually establish a community consensus and governance mechanism, allowing participants to jointly make decisions and manage the development of the project. Through the wisdom and consensus of the community, projects can better meet challenges, promote innovation, and maintain sustainable development.

These characteristics make the combination of edge computing and blockchain solve problems such as credibility and security, data privacy and control, transaction transparency and traceability, decentralization and autonomy, delay and response time. The project has advantages in providing efficient, secure and trusted edge computing resources, promoting the development of computing sharing and cooperation. At the same time, these characteristics also provide participants with more choices and control, promoting the development and diversification of edge computing.

eight. Edge Smart Chain problem solving

1. Credibility and security

Trust and security can be established between devices in edge computing through blockchain. Blockchain technology provides a decentralized consensus mechanism and immutable data records to ensure the credibility of interactions and data integrity. Edge devices can conduct secure direct interaction and resource sharing through smart contracts without relying on a centralized third party.

2. Data privacy and control

Edge computing involves a large amount of data exchange and processing, and these data may contain personal privacy or sensitive information. By incorporating blockchain, edge devices can gain greater control over their data and determine what data can be shared and how access controls can be exercised. The decentralized nature of the blockchain can protect data privacy and give data owners more control.

3. Scalability and elasticity

Edge computing networks can achieve high scalability and elasticity through the distributed nature of blockchain. Edge devices can participate in sharing computing resources, storage space, etc., and dynamically join or leave the network as needed. Blockchain technology can provide consensus and resource management mechanisms to ensure the stability and reliability of edge computing networks.

4. Transaction transparency and traceability

Through the immutable characteristics of the blockchain, the interaction and resource sharing in edge computing can achieve a high degree of transparency and traceability. All interactions and transaction records are recorded on the blockchain, which can be viewed and verified by all participants. This increases the believability of interactions and helps identify and resolve potential issues.

5. Decentralization and autonomy

The edge computing network combined with blockchain can realize decentralized resource allocation and decision-making mechanism. Smart contracts can automate the execution of prescribed rules and conditions, enabling autonomy and autonomous decision-making between edge devices. This decentralized feature can reduce dependence on centralized institutions and improve the efficiency and flexibility of the entire edge computing network.

6. Trust and cooperation

Participants in the Edge Smart Chain network can establish trust and cooperation through the blockchain. The immutability and consensus mechanism of the blockchain ensures the reliability of transactions and contracts, thereby promoting trust and cooperation between edge devices. This provides a decentralized trust foundation for the edge computing network, enabling different entities to safely share resources and participate in collaboration.

7. Payment and incentive mechanism

Edge computing combined with blockchain can provide a payment and incentive mechanism to motivate edge devices to participate in resource sharing and computing tasks. Through smart contracts and cryptocurrencies, payment rewards for providing computing resources, storage space, etc. to edge devices can be realized. This can promote more edge devices to participate in mining, provide computing resources, and jointly build a more powerful edge computing network.

8. Prevention of single point of failure

Edge computing combined with blockchain can solve the problem of single point of failure in traditional cloud computing. In traditional centralized cloud computing, if a cloud server fails, the entire system may be affected. The data and calculations in the edge computing network are distributed on multiple edge devices. Through the decentralization of the blockchain, even if an edge device fails, other devices can continue to provide services and perform computing tasks, ensuring that the system availability and stability.

9. Automated execution of smart contracts

Smart contracts in the blockchain can realize automated execution in edge computing. Smart contracts are pre-defined computer programs that automatically perform actions when certain conditions are met. Edge devices can perform automated resource allocation, task scheduling, and data sharing through smart contracts, reducing the need for human intervention and improving the efficiency of the entire edge computing network.

Edge Smart Chain combines blockchain to solve problems such as credibility and security, data privacy and control, scalability and elasticity, transaction transparency and traceability, as well as decentralization and autonomy. This provides higher security, credibility and flexibility for the development of edge computing networks, and promotes the innovation and application of edge computing and blockchain in various fields.

Nine. project outcome

1. Establish an edge computing network

Through the development and implementation of Edge Smart, a decentralized edge computing network will be established. The network will consist of multiple edge devices that can collaborate with each other, share resources and perform computing tasks. The construction of the edge computing network is one of the core achievements of the project.

2. Develop a credible resource sharing and interaction platform

Edge Smart will develop a safe and credible resource sharing and interaction platform. The platform will implement smart contracts and decentralized data records based on blockchain technology, ensuring the credibility and transparency of interaction and resource sharing between edge devices. The development of the platform will provide a reliable infrastructure to support the cooperation and collaboration of edge devices.

3. Improve computing and data processing efficiency

The introduction of edge computing can improve computing and data processing efficiency. By pushing computing tasks and data processing to edge devices, the delay and bandwidth pressure of data transmission are reduced. The outcome of the project will be reflected in the efficiency and responsiveness of edge devices in performing computing tasks and processing data.

4. Enhanced data privacy and security

Combined with blockchain technology, the project will focus on the protection of data privacy and security. Edge devices can establish secure direct interaction and resource sharing through the blockchain to ensure data confidentiality and integrity. Outcomes of the project will include providing strong data privacy and security mechanisms, enhancing the overall security of edge computing networks.

5. Realize edge computing mining

This project will also realize the ability of edge computing mining. Edge devices can contribute computing resources by participating in mining and obtain corresponding incentives. This will provide a new revenue stream for edge devices and facilitate the development and expansion of edge computing networks.

6. Commercial cooperation and partnership
Through the implementation of Edge Smart, commercial cooperation and partnership may be established. Edge device suppliers, enterprises, and other relevant stakeholders may participate in the project to jointly promote the development and application of edge computing and blockchain technology. These collaborations and partnerships will be one of the valuable outcomes of the project.

7. Realization of application scenarios
Through the combination of edge computing and blockchain, various application scenarios can be realized. These scenarios may cover the Internet of Things, smart cities, industrial automation, healthcare, and more. The results of the project will be reflected in the development and deployment of actual application scenarios, providing more efficient, secure and credible edge computing solutions for these fields.

8. Improve resource utilization
Edge Smart can achieve higher resource utilization. By sharing computing resources, storage space, and bandwidth of edge devices, the resource utilization efficiency of the entire network can be improved. The results of the project will be reflected in the optimization of resource sharing and scheduling mechanisms to maximize the use of resources.

9. Innovative business model
The results of Edge Smart may also include innovative business models and revenue mechanisms. Through the payment and incentive mechanism of the blockchain, a more flexible and sustainable business model can be established, and edge devices can be encouraged to participate in resource sharing and computing tasks. This will provide new business opportunities and revenue streams for relevant stakeholders.

10.Promote industry development
The application of Edge Smart will promote the development and innovation of the entire industry. The outcome of this project will provide new insights and practical experience in the field of edge computing and blockchain at both technical and commercial levels. This will have a positive impact on the development path of the industry, standard formulation and policy formulation.

11.Academic research and knowledge contribution
The implementation of Edge Smart may generate academic research results and contribute to the academic community in related fields. The experience and lessons of the project can provide reference and reference for other researchers to promote academic progress in the field of edge

computing and blockchain.

In general, the results of the Edge Smart Chain project will include technical implementation results, such as edge computing networks, resource sharing platforms, etc., as well as commercial and application results, such as the realization of application scenarios and the innovation of business models. These achievements will bring practical influence and impetus to the development and application of edge computing and blockchain fields.

ten. Business

Business logic:

1. **Market demand:** The combination of Edge Smart Chain is a hot spot in the current market. With the rapid development of the Internet of Things, artificial intelligence and big data, the demand for real-time data processing, security and privacy protection is increasing. Our projects address this market need, providing businesses and individuals with a more efficient, secure and trusted computing environment.

2. Value proposition: Edge Smart Chain provides the following value proposition through the combination of edge computing and blockchain technology:

- Faster data processing and response time: Pushing computing power to the edge of the network reduces data transfer time and latency, providing faster data processing and response time.

- Data security and privacy protection: Through the non-tamperable modification of the blockchain and the programmability of the smart contract, the security of interaction and data sharing is ensured, and the security and privacy protection of data are enhanced.

- Resource sharing and collaboration: Facilitate resource sharing and collaboration among edge devices, improve resource utilization, and provide devices with more computing power.

- Decentralization and autonomy: Through smart contracts, edge devices can directly negotiate and interact, increasing the flexibility and controllability of the system, enabling devices to make decisions and

perform tasks more autonomously.

3. Revenue model: Our revenue model can be based on the following aspects:

- Software license fees: Provide licenses for our edge computing and blockchain fusion application software, and price according to usage scale and functions.

- Service fees: Provide consulting, custom development, deployment and maintenance services related to our applications, and charge fees based on project scale and service content.

- Mining revenue sharing: Through the mining activities of edge devices, a part of the mining revenue is obtained and shared with device owners.

- Advertising and sponsorship income: The platform will also provide advertising and sponsorship services to users, and the platform will earn income from the fees paid by advertising and sponsors.

- Value-added services: The platform will provide a series of value-added services, such as smart contract writing, blockchain technology consulting and project promotion, etc., to help users make better use of technologies such as blockchain, WEB3, Metaverse and NFT, and get more more income. The platform will earn income from the service fees generated by providing value-added services.

- NFT trading, metaverse, digital asset management: Edge Smart Chain will provide NFT trading platform and digital asset management services. Users can put their digital assets on the shelves for trading, and at the same time manage and protect their digital assets through the digital asset management service of the platform. The platform will earn income from the handling fees and service fees generated by users' transactions and management behaviors.

4. Business partners: Establish partnerships with equipment manufacturers, IoT platform providers, blockchain technology providers, etc., to jointly promote the application of edge computing and blockchain. Through cooperation, we can expand market coverage, provide more comprehensive solutions, and jointly develop new business opportunities.

5.Market competitive advantages: Edge Smart Chain has the following competitive advantages in the field of edge computing and blockchain fusion applications:

- Technology leadership: We have leading edge computing and blockchain technologies, and effectively combine them to provide innovative solutions. Our team has the technical experience and expertise to develop highly reliable and secure applications.

- Comprehensive solution: Edge Smart Chain provides a comprehensive edge computing and blockchain fusion solution, including software, services and technical support. Our customers have one-stop access to the technology and services they need, simplifying the procurement and implementation process.

- Industry specialization: Edge Smart Chain focuses on specific vertical industries, such as Internet of Things, smart cities, industrial automation, etc., and has a deep understanding of industry needs and challenges. Through customized solutions, we are able to meet the specific business needs of our customers and provide personalized support and consulting services.

- User experience: Edge Smart Chain focuses on user experience and is committed to providing a simple, intuitive and easy-to-use interface, enabling users to easily operate and manage edge devices and blockchain networks. Through continuous user feedback and improvement, we continuously optimize products and services to improve user satisfaction and loyalty.

- Compliance and credibility: Edge Smart Chain follows the best practices of data privacy and security, ensuring that our solutions comply with relevant regulations and standards. Our blockchain technology guarantees data integrity and transparency, enhancing users' trust in data security and credibility.

6. **Market prospect:** The market prospect of Edge Smart Chain edge computing and blockchain fusion application is very broad. Developments in areas such as the Internet of Things, smart cities, and industrial automation are expected to continue driving demand for edge computing and blockchain. With the further maturity of the technology and the increase of market awareness, we have the opportunity to take the leading position in this fast-growing market and gain considerable market share and revenue.

In short, the business logic of Edge Smart Chain is based on competitive advantages in terms of market demand, technical advantages, comprehensive solutions, user experience, and compliance. We believe that our project can meet the needs of customers, create business value,

and achieve success in the field of edge computing and blockchain fusion applications.

Business logic analysis:

1. Market demand: Edge Smart Chain combines edge computing and blockchain technology to meet the current market needs for real-time data processing, security and privacy protection. With the development of the Internet of Things, artificial intelligence, and big data, the demand for fast, secure, and trusted computing environments is increasing.

2. Problem solving: Edge Smart Chain solves some problems in the traditional cloud computing environment through the combination of edge computing and blockchain technology. For example, it provides faster data processing and response time, reducing dependence on centralized cloud servers; enhancing data security and privacy protection, through the non-tamperable modification of the blockchain and the programmability of smart contracts; promoting It improves resource sharing and collaboration between edge devices and improves resource utilization.

3. Value proposition: Edge Smart Chain provides multiple value propositions, including faster data processing and response time, enhanced data security and privacy protection, resource sharing and collaboration, decentralization and autonomy, etc. These value propositions can meet the needs of users to improve their productivity, data security and business agility.

4. Revenue model: The revenue model of Edge Smart Chain can be realized in various ways such as software license fees, service fees, and mining revenue sharing. These revenue streams can help the project become profitable and provide financial support for continuous research and development and the provision of high-quality services.

5. Competitive advantages: Edge Smart Chain has competitive advantages such as technology leadership, comprehensive solutions, industry specialization, user experience and compliance in the field of edge computing and blockchain fusion applications. These advantages can help a project stand out in the market, attract customers and win the competition.

6. Market prospects: Edge computing and blockchain technology have

broad market prospects in the fields of Internet of Things, smart cities, and industrial automation. With the continuous development of these fields and the increase of application scenarios, projects have the opportunity to gain market share and achieve sustainable growth.

To sum up, Edge Smart Chain has good business development potential and feasibility based on the business logic of market demand, problem solving, value proposition, revenue model, competitive advantage and market prospect.

Business Vision:

The business vision of Edge Smart Chain is to become a leader in the field of edge computing and blockchain fusion applications, promote digital transformation and change the way the industry operates through innovative solutions and excellent services. Edge Smart Chain is committed to creating a credible, efficient and secure edge computing ecosystem to provide enterprises and individuals with an excellent computing experience.

Our vision includes the following aspects:

1. Technology leadership: Edge Smart Chain is committed to maintaining a leading position in technology, continuously developing and innovating solutions for the integration of edge computing and blockchain. By continuously introducing the latest technologies and algorithms, we will provide customers with an efficient, reliable and secure computing environment.

2. Industry leader: Edge Smart Chain hopes to become a leader in the field of edge computing and blockchain fusion applications. Through close cooperation with partners and market expansion, we will continue to expand our market share and build our brand and reputation worldwide.

3. User value: The mission of Edge Smart Chain is to create value for users. We will continue to listen to customers' needs and feedback, provide customized solutions that meet their business needs, and provide an excellent user experience. By providing high-quality service and support, we will earn the trust and loyalty of our customers.

4. Social impact: Edge Smart Chain hopes to promote the development and progress of society through our technology and solutions. We will be committed to solving the challenges faced by the industry, promoting sustainable development, promoting resource sharing and cooperation, and improving the efficiency and sustainability of society.

5. Community co-construction and cooperation: Edge Smart Chain will actively build an active and interactive community to encourage communication, sharing and cooperation among users. We will provide online forums, social media platforms and cooperative project opportunities to promote interaction and cooperation among users, and jointly promote the development and innovation of mining technology.

6. Global expansion: Our business vision is to become the world's leading shared mining platform for edge computing. We will actively expand the international market and establish close cooperation with global users and partners. Through localized service and support, we will meet the needs of users in different regions and gradually establish a global brand influence.

In short, our business vision is that Edge Smart Chain will become a leader in the field of edge computing and blockchain fusion applications, create value for customers, promote the development of the industry, and have a positive impact on society. We will continue to strive for innovation and improvement to realize this vision and become the benchmark and role model in the industry.

twelve. Law

1. disclaimer
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Four. Transformational basis for expected growth strategy and expected internal growth;

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Nine. Changes in the Foundation's future capital requirements and the availability of sufficient funds and resources to meet those needs;

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