

Research on Financial Accounting Supervision under Block-chain Technology

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Keywords: block-chain; financial accounting supervision; research

Abstract: The paper starts from the connotation analysis of block-chain, and seriously discusses many problems existing in financial accounting, such as serious distortion of enterprise accounting information, unclear accounting responsibility of enterprise leaders, poor quality of auditing practice, and repeated supervision by government departments and government. The bureaucratic style of the department is serious, and the advantages of financial accounting supervision based on block-chain technology are proposed. It facilitates information tracking and improves the authenticity of accounting information, reduces the obstacles of corporate leadership to accounting supervision, and improves the quality of social auditing practice and auditing efficiency to avoid repeated supervision by government departments and to eliminate the bureaucracy of government departments.

1. Introduction

As a major form of economic supervision, financial accounting supervision has a great impact on China's economic development. Due to the problems of traditional accounting supervision, the phenomenon of tax evasion and tax evasion and the loss of state-owned assets have occurred from time to time, which has seriously hindered the benign nature of the market economy and seriously damaged the country's economic interests. Therefore, it is imperative to standardize accounting behavior and strengthen accounting supervision. In recent years, with the continuous development of block-chain technology, its advantages have gradually become familiar, and the introduction of block-chain technology into financial accounting supervision has provided a good opportunity for the development of financial accounting supervision.

2. The Connotation of Block-chain

Block-chain, in simple terms, is a decentralized database that has been known to the world for its underlying technology as bitcoin in recent years. From the outside, the block-chain has the following characteristics: multi-party write common maintenance, public account book, decentralization and non-tampering. The core technology includes four aspects: distributed ledger, consensus mechanism, smart contract and cryptography. The significance of the block-chain is that it can build a more reliable Internet system and fundamentally solve the fraud and rent-seeking phenomenon in value exchange and transfer. With the popularity of block-chain technology, the digital economy will be more authentic and the economy and society will become more fair and transparent. Moreover, block-chain technology has the power to reduce costs, streamlining processes and reducing unnecessary transaction costs and institutional costs. This ability is used in many social fields and has important practical significance for improving the current depressed economic environment.

3. The Problems of Financial Accounting Supervision

At present, the financial accounting information of some enterprises in China is seriously distorted, and the phenomenon of violation of laws and regulations by enterprises has occurred from time to time. This is mainly because some internal enterprises have not formed an effective supervision mechanism, which has caused some financial accounting problems to be corrected in

time. The financial accounting problems of enterprises are mainly manifested in two points. First, in order to cover up some illegal economic content, the original documents are fabricated out of thin air, so that the illegal economic content is legal in form. The second is to fake the economic content, fill in the false economic content on the invoice, and then use the false invoice for reimbursement.

The leaders of some enterprises have a great prejudice against financial accounting supervision. They believe that financial accounting supervision is to pick faults and troubles for enterprises, which will seriously hinder the smooth development of all kinds of work, and thus affect the overall strength of enterprises, so they often The financial accounting supervision work has been hampered. In addition, some enterprise leaders have tried to achieve certain undesirable purposes, such as tax evasion, fraudulent loans, squandering public funds, inducing investor investment, embezzling bribery, etc., forcing corporate accountants to operate illegally and falsify. In addition, since the accountant is a member of the company's staff, the economic interests and work arrangements are largely controlled by the company's leaders, so it is easy to be influenced by the leadership of the company, and the precautions and timidity of the job are made, which makes the supervision of financial accounting effective. The responsibility of financial supervision of enterprise leaders is not clear enough, which undermines the integrity of accounting data and the reliability of accounting work, and even hinders the normal work of accounting personnel, making financial accounting supervision work in name only to some extent.

At present, the main person in charge of financial supervision in China is a certified public accountant. Under the pressure of huge market competition, in order to

Revenue for more profit, gain more living space, and the accounting firm is performing inquiry and verification of corporate business.

Often tend to be a trustee, not serious enough in the practice activities. Even some CPAs and accounting firms, under the temptation of economic interests, disregard professional ethics and practice quality, and issue incorrect audit reports and capital verification reports on auditing, verification, and bankruptcy liquidation of corporate accounting statements. The false information of the company has not been disclosed in time, and even some CPAs and accounting firms have fabricated false information and colluded with enterprises, which has greatly affected the credibility of CPAs and accounting firms and their social supervision [1].

When implementing the supervision of the accounting, the various supervisory departments of the government must not only perform their duties, but also do their part, and must work synergistically and efficiently. However, at present, the government supervision departments such as the taxation department, the audit department and the financial department are less cooperative, and the phenomenon of repeated supervision exists in large numbers. Moreover, China has not yet established a relatively complete accounting supervision system, and the supervision of the government supervision departments is still relatively strong.

Due to their unreasonable work behavior, the government supervision department has caused repeated supervision. However, when problems arise, these supervision departments often shirk their responsibilities, which have a great negative impact on the credibility and execution of the government supervision department. Moreover, the bureaucracy of securities supervision and insurance supervision is serious, which not only damages the image of the government supervision department but also weakens the effectiveness of its own accounting supervision.

4. The Financial Accounting Supervision Work under the Block-chain Technology

Facilitate information tracking and improve the authenticity of accounting information. Enterprises can build a distributed financial system through the effective use of block-chain technology. Enterprise employees enter the system to enter information on various economic activities, and after the internal network broadcasts the identification and verification of other employees, economic activity information will be written into the financial system. Once the economic activity information is not true, it will be automatically rejected into the financial system, thus effectively ensuring the integrity and accuracy of the company's economic activity information. And these economic activity information will be monitored in real time by the whole network and

will not be tampered with, so that information can be viewed and tracked.

Non-destructible modification is one of the important features of block-chain technology. Once financial information is verified and added to the financial system built based on block-chain technology, it will be stored and stored forever. At this time, corporate accountants are unable to tamper with financial accounting information either because of personal interests or by corporate leaders, which effectively reduces the obstacles that business leaders have to accounting supervision. The irresistible modification of block-chain technology has greatly improved the stability and reliability of financial information, and has also greatly increased the independence of accounting supervisors, making it difficult for business leaders to interfere with accounting supervision.

Improve the quality of audit practice and audit efficiency. A block-chain is usually shared by the customer with all associated parties, and the corresponding transaction data is stored on each block, so even if a customer's block fails or is subjected to malicious attacks, the block is on the block. The data is tampered with by others, but the remaining parties on the block-chain can still guarantee the integrity of the data and keep it running as usual. The distributed design of the block-chain makes it effective against internal and external attacks, greatly improving the authenticity and security of the audit data, and also reducing the misstatement of the audited entity, deliberately providing false accounting data, and collaborating with external auditors. The teacher's possibility of issuing inappropriate audit reports has effectively improved the quality of audit practice and audit efficiency [2].

Avoid repeated supervision by government departments. If each supervisory department of the government introduces the progress of its own accounting supervision work into the block-chain system and publicizes the supervision results of each supervisory object on the Internet, the other supervisory departments of the government can always know the supervision between the departments. The situation, and thus effectively avoiding repeated supervision by government departments, can significantly improve the efficiency of government supervision departments. And in the block-chain platform, the government supervision department corresponding to each enterprise can be quickly found out. Once there is a problem in the supervision work, the corresponding government supervision department can be quickly adopted, thereby avoiding mutual responsibility between the government supervision departments.

Eliminate the bureaucracy of government departments. Although the credibility of government departments has become stronger in recent years, some behaviors of government departments have been criticized by people for their poor transparency. With the application of block-chain technology, the public can supervise the supervision of the financial accounting of the government departments in real time through the open and transparent block-chain information system, which can effectively eliminate the bureaucracy of certain government departments and ensure the supervision of the government.

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