

ANALYSIS OF THE FINANCIAL RISK OF BANK-ENTERPRISE DIRECT CONNECTION IN SCIENTIFIC RESEARCH INSTITUTIONS

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Abstract: Due to the continuous development of information network technology, the financial system informatization is becoming increasingly perfect. In order to improve the payment efficiency and reduce the offline process, bank-enterprise direct connection has become one of the main ways to improve the efficiency of financial work. This paper takes the financial risks under the bank-enterprise direct connection of scientific research institutions as the entry point to analyze the possible risks and hidden dangers in the bank-enterprise direct connection business. In addition, the actual situation of scientific research institutions was investigated and studied, and proposed coping methods for different risks, so as to better improve the efficiency of financial management under the condition of ensuring financial security, and realize the transformation and technical upgrading of financial management.

Keywords: Bank-enterprise direct connection; Public institution; Financial risk

1 RESEARCH BACKGROUND AND SIGNIFICANCE

1.1 Background

In view of the scientific research institutions, as an important national strategic scientific and technological force, have the characteristics of large capital liquidity and high demand of capital timeliness. In order to better serve the scientific research work, many scientific research institutions have tried to connect the financial system and the bank e-banking, in order to strengthen the construction of the financial system and improve the efficiency of fund payment. As a relatively mature reimbursement and payment system, the bank-enterprise direct connection system has received wide attention. Since its implementation, the direct bank-enterprise connection system has operated stably, which can effectively improve the efficiency of financial management, reduce the working pressure of financial personnel, and reduce the possibility of fraud, so the system has been highly praised in public institutions. But by the limitation of technology or human factors, this system is still potential risks, and as the institution bank business increasing, superior departments increasingly strict supervision, and part of the unit internal control system implementation problems exposed and the phenomenon of job fraud, are in improving unit fund management level is urgent. Although the launch of bank-enterprise direct connection has effectively solved the problem of fund payment and provided convenience for financial personnel and reimbursement personnel, there are still some risks that need to be paid attention to. As the bank-enterprise direct connection system as an emerging financial management mode, some units have not yet systematic training of relevant financial personnel leads to the financial personnel are not competent for their job responsibilities and can not fully meet the requirements of the unit for fund management. And because the bank-enterprise direct connection system is highly dependent on the financial information construction level in the early stage, the problem of software and hardware security of the system is also an important risk point. The bank-enterprise direct connection system is generally a fund management system established within the unit, which connects the financial system of the unit with the core system of the firm through the data interface, so it has high requirements for information network security. Whether using the public network or the dedicated line for interconnection, there may be a hidden security

1.2 Significance

Through the work practice and experience summary of the operation stage of the bank-enterprise direct connection of scientific research institutions, the responsibilities of the financial position under the bank-enterprise direct connection are improved, the level of financial work is improved, financial risks are avoided, and the purpose of improving the financial management ability of the unit is achieved. Through the analysis of the application results of the bank-enterprise direct connection system, the existing job responsibilities are optimized, the risks caused by the imperfect job responsibilities are avoided, the efficiency of capital payment is improved, and the efficient financial management level is achieved. Second, to further improve the upgrading and transformation of the online security system, to avoid risks from the front end of the bank-enterprise direct connection, let the risk forward, so as to improve the level of financial information construction [1]. Third, to a certain extent, standardize the standard operating procedures, unify the payment process and payment standards, effectively reduce the payment risk, and prevent the occurrence of job fraud.

2 CURRENT SITUATION AND ADVANTAGES OF BANK-ENTERPRISE DIRECT CONNECTION IN PUBLIC INSTITUTIONS

2.1 The Status Quo

Scientific research institutions in order to further strengthen payment management, to the maximum extent to avoid payment risk, area, business selection conditional unit first try, explore to establish with direct league, RPA robot technology whole process of payment regulation mode, can copy, can promote experience and practice, to point with surface, gradually, realizing a complete coverage of department funds security risk prevention and control system. Scientific research institutions actively connect with the opening bank, complete the construction of the front machine environment, network connection, bank account authorization and setting, clarify the division of labor among all parties, establish an effective tripartite communication mechanism, formulate general work guidelines, and complete the comprehensive online work.

2.2 Advantages

The bank-enterprise direct connection business effectively improves the work efficiency of capital payment, reduces the burden of financial personnel, further strengthens the management of capital payment, and guarantees the safety of unit funds. However, because there is still room for further optimization of the system, there are still some deficiencies in risk management and prevention and control. This paper analyzes and combs the financial problems under the direct connection of scientific research institutions, so as to reduce risks and lay a solid foundation for the safe payment of funds.

3 FINANCIAL RISK ANALYSIS UNDER THE BANK-ENTERPRISE DIRECT CONNECTION

The financial risk research under the direct connection of banks and enterprises should be based on the basis of the existing financial audit process, find out possible risk points, and put forward corresponding countermeasures for potential risk points, so as to avoid risks as far as possible, improve financial work efficiency and prevent the loss of state-owned assets.

3.1 Data Accuracy Risk of the Bank-Enterprise Direct Connection System

The fact straight couplet data accuracy in the process of software automation is also one of the important risk points, due to the data in the reimbursement system, financial system, the third party software company and the bank net silver transmission process chain is long, involving more links, any link error is likely to affect the accuracy of the data, eventually lead to remittance error. Entry errors, processing errors, and transmission abnormalities are the common problems in the service execution process. These problems will lead to not only Payment error, but also regulatory risks and legal disputes [2]. In order to solve these problems, the unit can ensure the accuracy of the data by strengthening the data quality management and monitoring, improving the data entry process, introducing the verification mechanism, strengthening the data audit and establishing the data quality evaluation system. At the same time, the unit also needs to pay attention to the upgrade and optimization of the information system. By introducing advanced data processing tools and technologies, improve the system stability and data processing ability, and reduce the data error rate.

3.2 Compatibility and Security Risks of the Bank-Enterprise Direct Connection System

Due to the different computer support systems, the hardware and software compatibility problems and the security problems of the information network are one of the causes of the uncontrollable risks of the bank-enterprise direct connection. The system incompatibility problem is mainly reflected in two aspects, the first is the contradiction between the system and the hardware equipment. Due to the large amount of data stored by the bank-enterprise direct connection system, the computing requirements for computers are higher. It is difficult for old equipment and ordinary desktop computers to bear such a large amount of computing, and the system will not operate normally and data loss will occur. The second is the contradiction between the system and the software. As a third-party platform, it directly links the Intranet of the bank with the Intranet of the bank. Once the Intranet is infected with the virus, it will not only affect the functions of other systems on the Internet of the company, but also may lead to problems in the bank port, causing irreparable economic losses and reputation losses. In addition, as the system needs to be constantly updated and transformed to adapt to the new demands and new environment, the bank-enterprise direct connection system needs to be continuously upgraded according to the financial platform and the bank port, which means that the follow-up maintenance of the bank-enterprise direct connection is also the top priority. When the systems can not be upgraded synchronously, it will not only lead to the financial data cannot be input and processed normally, but also appear security loopholes and hidden dangers, resulting in the increased risk of data leakage and tampering.

3.3 Financial Personnel Risks in the Process of Bank-Enterprise Direct Connection

Under the development trend of financial informatization, the field of financial management is facing many new challenges. Among them, the uneven skill level of financial personnel has become a key factor restricting the improvement of financial management level. Financial informatization requires financial personnel to have solid professional skills and high professional quality, to master all kinds of financial software and information systems, to process data efficiently, and to quickly analyze and solve the problems in software execution. However, there are significant differences in the skill level of current financial personnel, and it is difficult for some personnel to adapt to the work needs under the information environment, and their professional quality and ability still need to be improved. At the same time, accounting information also requires financial personnel to have good communication and coordination skills [3]. In the information environment, the information exchange and cooperation between the financial department and banks and financial information development companies are closer. Financial personnel should be able to transmit information accurately and efficiently, and promote the cooperation within and outside the department. However, it is a pity that the performance of some financial personnel in this aspect is still insufficient, resulting in the bank-enterprise direct connection failed to play a practical role, but reduced the work efficiency and increased the financial risk. Some financial personnel are short of comprehension ability of policies and regulations, and lack of necessary risk awareness, leading to accurately identify the Potential financial risks, affect the financial management work.

4 POTENTIAL RISK RESPONSE STRATEGIES FOR PUBLIC INSTITUTIONS DIRECTLY CONNECTED WITH BANKS AND ENTERPRISES

4.1 Strengthen the Daily Maintenance of Hardware and Software and Data Backup

Institutions should long-term running server for regular maintenance and inspection, to use a long time, the old server in time to replace, strengthen the confidentiality of data transmission and network maintenance, network transmission data encryption, regularly upgrade firewall and repair vulnerabilities, install the latest antivirus software, enhance the system itself protection ability, resist and prevent network virus invasion, ensure the security of data transmission, prevent important data such as bank account leaks. Relevant financial data shall implement regular backup management system, designated special personnel to be responsible for daily maintenance of hardware and software and data backup, server data is automatically backed up every day and manually backup at least once a month to ensure double backup of important data [4].

4.2 Strengthen the System Security Guarantee and Data Protection

System security and data protection are an important prerequisite for the operation of the accounting information system. The unit should put the system security at a strategic height and adopt comprehensive and multi-level defense strategies to resist the risk of network attacks and data leakage. This includes, but is not limited to, strengthening system security lines, implementing regular security audits and vulnerability repair plans, and building a robust data backup and disaster recovery system. The unit should also be equipped with the bank-enterprise direct connection machine and the bank special line to ensure that the special machine only serves the bank-enterprise direct connection system, so as to avoid one server connecting to multiple data sources at the same time, leading to the normal operation of the external network intervention system. In addition, sensitive information is strictly encrypted to ensure the absolute security of data during transmission and storage. Through this series of strengthening measures, the confidentiality, integrity and availability of financial information will be maintained to provide a solid guarantee for the sound operation of the financial management work of the unit.

4.3 Strengthen the Internal Control Construction

Under the reimbursement mode of bank-enterprise direct connection of public institutions, the unit must optimize and improve the original internal control system, so as to adapt to the financial information work under the new situation, improve the effectiveness of internal control, and ensure the accuracy and security of financial data [5]. The traditional internal control construction is mainly based on the management of people, while the internal control under the direct connection of banks and enterprises needs to consider the problem of information network security, and needs to supervise the procedures. Scientific research institutions can standardize their business processes and formulate relevant management methods and operation processes, and fully cover the capital security risk prevention and control system, laying a solid foundation for the development of bank-enterprise direct connection business.

4.4 Enhance the Awareness of Financial Risk Prevention

Public institutions may encounter financial risks in every link of the business process, in order to improve the overall risk prevention and control ability. The primary task is to enhance the overall understanding of financial risks and prevention awareness, to ensure that the relevant systems are effectively implemented. The unit shall enhance the risk identification ability of all financial personnel by means of cultural construction, system publicity and implementation, so as to deal with the possible risks and hidden dangers at any time [6]. Secondly, financial personnel need regular skills

training to enhance financial business ability. Since financial work involves a large number of data processing and information analysis, financial personnel are required to have solid professional skills and efficient working methods. Through systematic and professional training, financial personnel can skillfully apply financial software, fully understand the policies and regulations, improve work efficiency, clarify job responsibilities, reduce the risk of mistakes, avoid the loss of state-owned assets, and create more value for the unit while avoiding risks [7].

5 RESEARCH CONCLUSION

The preventive measures of different types of risks in the bank-enterprise direct connection process are also different. Therefore, corresponding measures must be formulated in combination with the system situation and the internal management system of the unit, so that financial personnel can cooperate closely with the bank-enterprise direct connection system to ensure the safety of funds. This paper is scientific research institutions argues direct risks in the process of analysis, and different risk problems, classification of existing risks and summary, put forward the corresponding avoid countermeasures, for other units after financial reimbursement information construction and promotion, in order to speed up the pace of financial reimbursement system information construction, for fact direct league system of extensive promotion work to provide certain reference significance.

COMPETING INTERESTS

The authors have no relevant financial or non-financial interests to disclose.

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