

Influence of Intelligent Data Collection and Cloud Computing Technology on the Intelligent Development of Accounting Information Processing

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Abstract: With the continuous progress and rapid development of Chinese modern science and technology, the intelligent data analysis technology under the background of big data era has brought great convenience to the rapid development of Chinese enterprises and the information processing in social daily life and work. Because it can effectively improve the efficiency of information collection, and submit the analysis results simultaneously, the enterprise financial accounting work is more intelligent. Based on this, the article first briefly summarizes the necessity of intelligent enterprise accounting information processing, and then based on cloud computing technology, big data intelligent collection and other related information technology means, it puts forward effective measures to promote the intelligent development of enterprise financial accounting information for reference.

1 INTRODUCTION

With the continuous improvement of China's comprehensive national strength, the accounting work of modern enterprises has gradually been replaced by all kinds of intelligent financial software with complete functions, and from the previous single-function computing software to the integration of data analysis, processing, and collection and large-scale financial system development. Under this working mode, the company's capital management model has begun to develop towards a highly intensive direction, and its own operating costs and risk management and control mechanisms have also begun to become more mature, allowing the company to obtain a more favorable development environment. Under the background of this era, accountants need to actively change their work concepts, and at the same time continuously improve their information literacy, so as to adapt to the requirements of financial work in the new era. In this working mode, the capital management mode of enterprises begins to develop towards the direction of highly intensive, and for their own operating costs and risk control mechanism also begins to become more mature, allowing the enterprise to obtain a more favorable development environment. In the

background of this era, accountants need to actively change their working concept, and constantly improve their information literacy, so as to adapt to the financial work requirements in the new era. Based on this, this article has carried out research on the form of accounting work carried out by enterprises through intelligent software under the current stage of big data information technology.

2 ANALYSIS OF THE DEVELOPMENT TREND OF INTELLIGENT ACCOUNTING INFORMATION PROCESSING UNDER THE BACKGROUND OF BIG DATA

2.1 Real-time Sharing of Data Resources

Data sharing is an important feature of cloud computing and intelligent data collection systems. With the support of information technology, people not only obtain the convenience of data collection, but also can achieve instant communication and

communication of barrier-free information. Therefore, in this era, every individual participating in the network can be regarded as a component of the big data network. It can actively share information, and obtain important information they need through the data platform. As a result, there is an overall transformation within the enterprise in a true sense, which can ensure unimpeded communication between departments.

2.2 Improve Cost Control Efficiency

In the development process of an enterprise, it will always be restricted by production costs. The use of intelligent data collection and cloud computing technology enables companies to record their own operating data more accurately, including the cost of each business activity. Through such technological blessings, companies have become more efficient in controlling their own operating costs, thereby improving the stability of their operations.

3 THE INEVITABILITY OF INTELLIGENT ACCOUNTING INFORMATION PROCESSING UNDER THE BACKGROUND OF BIG DATA

Companies use traditional accounting information processing methods, which are based on the company's daily operating funds and capital flows to analyze and record accounting data, submit financial statements, and summarize them. With a relatively monotonous work process and manual methods, it can summarize the daily development and operation of the entire enterprise over a long period of time. Traditional manual accounting information processing methods can no longer fully meet the highest requirements for corporate accounting and financial information collection and processing in the era of big data economy. The intelligent accounting information business processing system can process a large amount of information in each stage of the process and conduct a more scientific and rapid collection and comprehensive analysis of various accounting information business of the entire enterprise, forming an effective accounting report form, and feedback information to business decision makers (Guo, 2020). This kind of efficient accounting information business management solution is an inevitable development trend in the realization of enterprise accounting information

processing intelligence. Figure 1 is an illustration of the integrated workflow of financial budget information under the intelligent information platform.



Figure 1: The working flow of financial budget information integration under the intelligent information platform.

4 PROBLEMS EXISTING IN THE PROCESS OF INTELLIGENT ACCOUNTING INFORMATION PROCESSING

4.1 Insufficient Application of Accounting Information Processing Technology and Imperfect Software Service Function

Accounting and financial management is the top priority of the financial management of modern large-scale enterprises. However, in real life, many small and medium-sized enterprises accounting business applications are still at the level of basic computerized software systems. In many companies, financial audits, judgments, and other important financial data information processing require manual operations directly with the help of financial staff. Although many large-scale enterprise financial application software currently on the market has evolved to be directly used to meet different business types, in order to meet the needs of more small and medium-sized enterprises accounting service functions. However, it is still necessary to continuously improve the enterprise's intelligent

accounting information processing technology, and at the same time satisfy the service functions of some large-scale enterprise accounting application software. On the one hand, due to the huge economic data generated in the daily operation of enterprises, the accounting department will inevitably lead to errors in a small part of the data under high-intensity work conditions (Gao, 2020). On the other hand, there are also certain human factors. This kind of operation method may cause a certain distortion phenomenon in the collection work, which will lead to some effective accounting information not being processed correctly, making the overall intelligent accounting work unable to be carried out effectively.

4.2 Accounting Information Security of Enterprises is Systematically Threatened

In recent years, accounting companies have begun to use corporate accounting service industry technology and information artificial intelligence processing technology. Real-time information encryption and optimization storage and preservation of modern enterprise financial data accounting information systems ensure the development of modern enterprise financial market economic policy, financial accounting management and corporate government decision-making and other business. The information has high calculation accuracy. However, in the process of financial accounting information processing through artificial manufacturing intelligence, the financial accounting industry still needs a certain safe and reliable corporate hacker network protection and network security environment (Yang, 2020). If the network is not properly protected, it is easy to be attacked by hackers, causing many enterprises to have abnormal financial and accounting data, information leakage, security failures, and even the collapse of information systems, which will bring economic losses to relevant enterprises that are difficult to make up for in time. Therefore, in modern enterprise financial work, it is necessary to improve the intelligent level of accounting information processing, continuously strengthen the technical guarantee of the security, reliability and performance of the enterprise financial accounting information system, continue to in-depth scientific research, and combine the corresponding enterprise accounting needs for network security and firewalls (Wang, 2020). The introduction of relevant defense systems and upgrade technology improve its security and performance.

4.3 Intelligent Accounting Information Processing Cannot Replace Human Participation

Although accounting information processing intelligence has certain professional skills and advantages in modern enterprise accounting management, most of the corporate financial management work that it can perform is currently more basic and more difficult than the basic industry rules, which can meet the needs of existing accounting professionals that cannot be handled in time. From a cognitive perspective, the algorithms and ideas of traditional accounting information processing can no longer meet the needs of modern enterprises for decision-making speed and accuracy (Li, 2019). However, the existing accounting information processing system of enterprises is difficult to make accurate and professional accounting judgments for more complicated enterprise accounting management problems, which affects enterprise decision-makers to a certain extent and makes it difficult to effectively keep up with the actual management work of enterprise accounting schedule.

5 SOLUTION TO THE EXISTING PROBLEMS OF INTELLIGENT ACCOUNTING INFORMATION PROCESSING

5.1 Apply the Advanced and Intelligent Accounting Information Processing Technology

Whether an enterprise's financial software can perform automated data analysis is the main basis for judging whether it is intelligent. Through the parameter setting in the system placement process, it can be ensured that the financial system can accurately rely on the cloud computing function to perform statistics and accounting on the collected effective financial information during the work process. Combining with the results of data calculations to accurately evaluate the business data of the current stage of the enterprise, thus laying a good foundation for the use of intelligent financial software in accounting work. The intelligent data processing system of financial software can also be connected with a variety of different logic programs. It can optimize its own calculation and analysis

functions, and provide a guarantee for the accuracy of the data analysis structure. With the support of such functions, the effective disposal range of financial software can be further enlarged, and it can even receive the latest economic policies issued by the state and industry index changes in the market in time to provide timely data references for enterprises, which can not only effectively avoid operating risks. At the same time, it can also provide decision-making basis for the daily operation of enterprises, and ensure that all kinds of enterprises and units keep up with the trend of information development in the era of big data and cloud computing, and seize development opportunities (Zhou, 2020).

5.2 Cultivate Comprehensive Financial Accounting Skills

Enterprise accounting information processing needs to be completed by a team of professional technical accounting personnel responsible for participating in the design. Intelligent enterprise accounting information processing work requires professionals not only to master professional accounting knowledge, but also to have a good understanding of the enterprise accounting information intelligent processing system (Li, 2020). From a functional perspective in the process of enterprise accounting information processing, accounting intelligent information processing is highly comprehensive. Practitioners related to accounting information processing need to fully understand the accounting information processing process and related regulations, and at the same time, the accounting intelligent system needs professionals who can achieve system maintenance. At this stage, the number of such talents is very small. If some companies fully implement intelligent accounting information processing systems, the number of talents cannot meet their own needs. Through cooperation with universities or training institutions, regular and targeted training of comprehensive management thinking financial personnel is guaranteed to ensure high quality. The input of supply and demand of all-round talents provides backup guarantee for the effective operation and sustainable development of enterprise accounting intelligence

5.3 Improve the Risk Early Warning System of the Intelligent Accounting Information Processing System

First of all, in the enterprise accounting information processing system, it is necessary to install firewalls, password protection and other accounting information security data protection application software, regularly maintain and regularly check the intelligent collection and processing control system of the accounting information database, and solve problems in a timely manner to improve the enterprise's hardware facilities prevention capabilities. Secondly, it does a good job in the protection of enterprise accounting information data backup in a timely manner to avoid accounting data loss caused by information technology or various other objective factors, which may cause unnecessary trouble to the enterprise (Zhou, 2020). Thirdly, it can establish the awareness of risk monitoring, prevention and management of relevant accounting technicians, improve the technical ability to maintain and test the security of financial intelligent information system equipment, standardize the security settings of intelligent systems, set emergency preventive measures, and improve relevant technical personnel to respond to the network economy. It can adapt to information security risks.

6 INTELLIGENT OPTIMIZATION PATH OF ACCOUNTING INFORMATION PROCESSING

6.1 Change the Traditional Accounting Concept and Create a Good Environment for Accounting

With the rapid development of information technology, intelligent software is used in various industries, has a wealth of professional extension, and can also play an important role in the development of enterprises. The integration trend of information technology and various fields is accelerating. Therefore, when carrying out accounting management work, relevant personnel need to change the traditional accounting concepts and ways of thinking, increase the utilization rate of advanced technology, and effectively seize the new

development opportunities brought by the development of information technology. Information technology is not static. With technological advancement, information technology also develops and changes. In view of the characteristics of information technology, business managers need to base themselves on the actual development of the unit. In the trend of the big data era, it can take advantage of the trend to find an intelligent information processing system suitable for enterprises and establish a development direction.

6.2 Intelligent Financial Systems Need to Have the Characteristics of High efficiency, Convenience, Sharing, Security, Collaboration, and Intelligent Integration

General financial software has played an irreplaceable role in the development of accounting software application in China. However, with the change of global economic integration, different enterprises use different accounting standards and accounting standards, which requires the support of multiple intelligent accounting software. The data collection and analysis function of financial software needs to be realized according to the manual setting of calculation parameters. Therefore, in the process of practical work, operators can use the terminal server to financial software for logical expression editing and input, in order to adjust the scope of financial software at any time and ensure the effectiveness of the calculation results. In addition, through the system interface provided by the terminal server, accounting staff can also in the relevant legal system and accounting standards under the permission of the enterprise itself or the industry's economic information, so that they can quickly get their own financial information under the assistance of financial software. It can ensure the authenticity and effectiveness of financial data, which can be used as the decision basis for enterprises to make the next business plan. At the same time, it can realize data sharing within the company, so that the various departments of the enterprise are no longer individual, but effectively integrated into a cohesive force (Lin, 2018). The intelligent development of accounting information processing requires high efficiency, convenience, sharing, security, cooperation and intelligent integration. Figure 2 is the analysis of the expense reimbursement of the intelligent financial work platform next month.

Reimbursement	Persons	Documents	Average amount	Average amount of employees
224,512,277	9,337	368,717	609	24,045

Figure 2: Analysis chart of reimbursement expenses under Huiyi Accounting Intelligent Financial Work Platform.

6.3 Improve the Decision-making Ability of Enterprise Managers and Financial Managers

Technological innovations in the field of intelligent accounting information processing ensure that enterprises can keep up with the times when carrying out information processing work, and absorb and adopt advanced information processing methods in a timely manner. The purpose is to provide a strong guarantee for the effective implementation and update of accounting information processing analysis. Therefore, the ultimate goal of the intelligent application of accounting information processing is to use information technology to fully improve data processing capabilities and efficiency, while ensuring data quality can provide a basis for managers' decision-making. Because financial personnel and managers need to shift their focus to unconventional and more complex management issues and decision-making levels, and ultimately achieve the optimization of management expertise. Whereas, in the process of practical work, operators can use the terminal server to financial software for logical expression editing and input so as to adjust the scope of financial software at any time and ensure the effectiveness of the calculation results. In addition, through the system interface provided by the terminal server, accounting staff can also in the relevant legal system and accounting standards under the permission of the enterprise itself or the industry's economic information. The purpose is to make them can quickly get their own financial information under the assistance of financial software. It can ensure the authenticity and effectiveness of financial data, which can be used as the decision basis for enterprises to make the next business plan. At the same time, it can realize data sharing within the company, so that the various departments of the enterprise are no longer individual, but effectively integrated into a cohesive force.

7 CONCLUSION

At this stage, various provinces and municipalities are actively implementing financial integration systems, and the intelligentization of accounting has become an inevitable trend. Enterprises need to analyze various problems and successful experiences in the operation of intelligent management systems in Chinese enterprises at this stage. It can explore effective solutions to problems in combination with the situation and reserve professional talents in advance, continuously optimize the existing accounting information processing system of the enterprise. It can also strive to lay a solid foundation for the comprehensive implementation of intelligent accounting information processing systems, and promote modern enterprises and lay the cornerstone for development.

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