Innovating Computerized Social Insurance Management Model

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Abstract: At this stage, the industry background of China's social insurance management mechanism is facing reforms. In the process of reform, in accordance with relevant issues, through analysis and discussion, focus on properly handling issues, enhance the effectiveness of the organization's work, take an information processing method, rely on computers Technology makes social insurance management tend to be automated, intelligent and efficient. By promoting the informationization of social insurance management, simplifying the steps of handling social insurance business, integrating the data, file, and teller system models, implementing streamlined fund payment business management and control procedures, maximizing the use of computer applications, and strengthening social insurance institutions work results, social insurance agency business model to achieve innovation.

1. Introduction
Through the pilot push of the social security teller system, the current informatization construction of the social insurance management model has begun to spread. In this era, through continuous development and application of technical resources, the social insurance management service model is continuously innovated, such as building an information technology service platform. In this way, computer software and hardware technology can be combined, and under the escort of computer technology and Internet technology, computer file business information construction in social security first management can be truly realized.

2. Important Value of Social Insurance Business in People's Livelihood Services
In 2009, the Ministry of Human Resources, the Ministry of Social The professional archives formed by social insurance institutions during the business process include text, images, audio, video, electronics, archives, etc. The value preservation of social insurance business files is carried out by different carriers in the way that the society provides services. Through years of development, we have adopted new technologies in social insurance business file confirmation, social insurance, and file management to continuously improve service standards. We can fully maintain insurance records, original proof of pension insurance contributions, etc. to ensure participation in insurance. The vital interests of employees. However, there are also some problems in social insurance business services. For example, service efficiency, services, facilities, and equipment have proposed requirements to simplify handling procedures and procedures. There are still inconsistent business regulations and inconsistent business requirements caused problems such as tedious work. In order to solve the above problems, we need to remove the complicated paper business, the work efficiency is not high, it takes up a lot of personnel files, and the processing time is long, it also has many obstacles. Therefore, we develop corresponding solutions through the analysis of the problem [1]. Such as security and the national archives...
administration jointly issued regulations on the management of social insurance business archives. First, strengthen service awareness, through business training and guidance requirements, the staff's business quality and work style are continuously improved, and new ideas are sought with a service attitude to handle social insurance business. We must keep pace with the times in handling business, adopt new measures in response to the current new situation and new problems, improve our comprehensive control capabilities, actively research methods, do a good job of implementation, and establish a sense of responsibility.

The second is to simplify the handling procedures of social insurance business, to clarify the unified caliber, and to simplify the issue of business file retention. For example, in terms of the cancellation of the daily report of the new insurance business, the social insurance card business is handled, and unnecessary paper files are removed, such as freelancers, flexible employees in the individual business type, new electronic insurance files, and account books the original and the original ID card are sufficient, and no process change is required. In the window service, business data is scanned without scattered scanning. It supports the reception room to divert traffic, strengthen post-mortem assessment management, and enhance service efficiency.

Thirdly, the implementation of the integrated teller system, the innovation of the social insurance handling business model, and the adoption of the integrated teller system are a way to correspond to the original dedicated managers. We should achieve one-stop service and one-off settlement, clarify the responsibilities of the staff, integrate the management of business material collection regulations and filing of archives into the business management link, and realize the combination of teller system and computer technology [2].

Since the implementation of the above-mentioned mechanism, significant results have been achieved, and the close connection of archive management business management has been achieved. Through the trial of the comprehensive social insurance teller system, it has continuously achieved the staged goals and gradually completed the final requirements of the teller system. For example, the establishment of a special business consultation window, the system of taking turns on duty, solve problems in a timely manner. Establish a facilitator in the business hall, recruit facilitators for training, and properly guide staff who are unfamiliar with the process to facilitate the work of the masses. Strengthen the management of fund payment bills, simplify social insurance business procedures, provide computer information support, and achieve integrated management of archives, information, and social insurance business. Adopting social insurance, archives computer information management level, and using B / S / S multi-layer architecture design, effective integration of social insurance business archives and business is achieved, business docking is achieved, two-way data exchange is implemented, and service hardware that can be equipped will fully equipped, give full play to the role of two-dimensional code in the large scan, save the time of entering personnel, and improve work efficiency.

3. Status of Social Insurance Management

The social insurance management work currently has major flaws in the system, and it is urgent to improve it. First of all, no matter the size of the business, you must set up a special department and hire professional staff to handle social insurance work. At present, professional departments and professionals are not perfect enough, and the professional process of setting up social insurance management work is not fully in place. It is urgent to improve every step of social insurance management work in order to truly realize the scientific management of social insurance. Introduce professional scientific management methods from advanced western countries to manage China's social insurance work. Although it can quickly improve the social insurance management system, the initial investment will be compared. Therefore, we must improve the social insurance management work system and use technology to manage the model to innovate is an inevitable trend.

3.1. Innovation of Social Insurance Management Information Platform

With the development of the times, we have entered the world of information technology. When managing social insurance work, it is necessary to introduce an advanced information platform [3].
Social insurance is a very large and complex system. The possibility of manual management of social insurance work is no longer great, and in order to improve China's social insurance, it is no longer the previous deduction and calculation of contributions in social insurance procedures. Wait for a few simple steps. The importance of the innovation of the information platform for social insurance management can be imagined. But there is also a need to attract attention. When developing an information platform, we must introduce a high-quality information platform. The demand analysis of the social insurance management information system is aimed at the business process of social insurance. It implements functions such as automatic collection, payment, financial management, and comprehensive inquiry of the insurance employees' files such as retired employees and insurance payment records. System requirements cover all aspects of social insurance.

3.2. Functional Composition of Social Insurance Information System Network

Functionally speaking, the social insurance management system can perform business processing, record information collection and extraction, information exchange and sharing, information release and service, and release information through relevant department data exchanges and channels to conduct information processing of social insurance business. These include basic endowment, basic medical care, maternity insurance, supplementary medical insurance, etc., and do a good job of fund financial management. Collect and extract various kinds of information from a macro perspective, use macro decision-making and analysis, and use economics, operations research, probability, statistics and other method libraries, model libraries, and knowledge bases to conduct comparative analysis of information to realize decision analysis of management system, handling mode, and incentive mechanism. At the same time, we can supervise and control the fund, provide information support for the fund's macro-control, and prevent information leakage.

Figure 1 Functional Composition of Social Insurance Information System Network

3.3. Social Insurance Business Process

In terms of performance requirements, it satisfies various factors of personnel, and measures from inquiry and request, from end to response, and interactive job processing. In the social insurance management information system, according to industry experience, the tolerable time is within three seconds, and the transaction time cannot exceed 50% of the background host and network response time. Therefore, under the condition that the response time is extended by up to 5 to 10 seconds, the maximum amount of data analysis, data query, data summary, and statistical operations are completed. Within a given time period, the system must complete the brightness of the total workload and single transaction
The response time is 3 to 5 seconds, and the batch processing time is 700 to 1000 transactions per hour. Accuracy is the principle for determining the characteristic accuracy of information processing. According to the current calculation and statistics mechanism, a practical business chamber of commerce is used, and the amount of data in the insurance management system is accurate. The father of collection management in the business handling process, provides various social insurance services for insurance participants. For example, in public business, the handling process of each link is registration, declaration, verification, levy and account management, and the handling process is an important part of personnel registration and change. Therefore, during the registration process, social insurance registration must be handled, relevant changes and cancellation procedures must be done, social insurance premiums must be reported and verified, payment bases must be verified, and payment verifications must be completed in accordance with the law. The personal account is organized and the basic account information is recorded. At the end of each year, the basic old-age insurance personal account must be settled. When conducting the unemployment benefit review and payment, it is necessary to fill in the unemployment insurance benefit disbursement notice, complete the benefit review and payment, and review the medical records and related information of the insured persons in accordance with regulations [4].

4. Design of Social Insurance Management Information Platform System

(1) According to the network system construction goal, the social insurance information system should reflect the functions of business management, public information services, fund supervision, and insurance macro-decision. And sharing, to achieve the public's service requirements for social insurance business, to achieve horizontal information exchange between departments, and to ensure that data information is accurate, safe and reliable.

In terms of system design, we adopt mature advanced technology to ensure applicability, advancedness, exchangeability, restraint, and security. We have established a unified plan, step-by-step implementation, mature networking technology, and advanced network architecture to provide network management. Means and tools to ensure the full functioning of the system.

(2) The overall architecture of the network system takes network applications as the core, realizes the connection between the e-government network platform and the public communication network platform, and supports cross-platform distributed computer wide area network processing.

The functional architecture can be divided into office network, business transmission network, and public service network. The architecture is as follows:

![Logical Composition of Social Insurance Networks](image_url)

Figure 2 Logical Composition of Social Insurance Networks

The office network is established by social insurance institutions to support the circulation of official documents, provide office services for social insurance institutions, and be constructed and structured in accordance with national e-government related standards. The business private network relies on the
government affairs external network to set up the main node of the social insurance institution, and exchanges, shares and connects information with relevant government departments and other relevant departments. The public service network uses telephone consulting services and the Internet to provide services such as business inquiry, online registration, and online payment.

(3) In terms of logical architecture, the insurance information system uses the network topology to form an internal and external network structure. The office network and the business private network are physically separated according to relevant security standards, connected through the Internet, and the network topology is used to extend the terminal. To the streets, communities, and network resource sharing services such as the employment system and social insurance information, use DDN to access the information system. In terms of architecture, a social insurance information system consisting of a security support platform, network infrastructure, application support platform, and business applications can provide security protection and trust services from the aspects of network applications, business applications, and provide higher transmission services[5].

In view of different application purposes and scopes, the insurance information system design regards the construction of the social insurance intranet as an important part. The technical standards are based on the principle of network loan networks, network flexibility and scalability, and use the Ethernet CSMA protocol for networking. Connection, adopts IEEE Ethernet technology as the networking technology standard for labor security information local area network. Ethernet technology network topology is a network structure construction mode, which uses switching equipment and terminal equipment for connection. The vertical part of the floor is mainly multimode fiber-to-floor switching equipment, with the information center as the core, and a large amount of data on the backbone nodes of the information center and set IP for pooled and decentralized needs. The data processing technology information center leases telecommunications fiber optic connections at business points, and at the same time uses the telecommunications fiber interconnection to connect private lines, uses DNN private line connections, uses static routing protocols to achieve load balancing, and uses a layered structure for deployment, including the network core layer, network access layer, network edge layer.

(4) VLAN division is based on the number of application services and the number of user nodes. It divides large broadcasts into multiple small broadcast domains to improve the efficiency of network bandwidth utilization and avoid the proliferation of sensitive information. Network administrators use ports to isolate working groups, and place scattered users in a group to facilitate network management. For different VLAN communications, routers and layer 3 switches are used to solve the division problem. The general principle is that the server and the client do not exist in the same subnet. They are self-divided according to the type of application and business flow. Therefore, they can provide external information services and provide security application support services.

5. Conclusion:
At present, the informatization construction of the social insurance information management platform is tightly organized and scientifically managed. The quality of the information management platform has been continuously improved to ensure the normal operation of the social insurance management business. In order to improve the informatization construction of the social insurance information management platform, through the innovation of management and technology, the social insurance information management platform is continuously promoted to upgrade. As a result, the professional ethics of social security practitioners will be improved, and the business policy and social security management structure of laws and regulations will be strengthened, and China's social insurance information management will continue to reach a new level.

Projects
Key Projects of Humanities and Social Sciences in Anhui Province:
1. Study on the operation mode of industrial fund in Resource-based Cities -- a case study of Huainan City（SK2017A0503）
2. Research on the return mechanism of social capital investment based on PPP model of pension service
Huainan Normal University Quality Engineering Project about Key teaching research projects:
Study on the innovation of financial education model in the supply side perspective

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