Research on the Influence of Computer Electronic Technology on Modern Enterprise Logistics Management Information System

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Abstract. With the continuous improvement of logistics supporting service requirements, small and medium-sized transportation logistics enterprises are facing challenges and pressures from multiple dimensions. Therefore, it is urgent to improve the level and ability of logistics management, and to promote the survival and development advantages in the cruel market competition. Based on this, this paper first analyzes the modern enterprise logistics management information system, then studies the data description of the contemporary enterprise logistics management information system, and finally gives the influence of computer electronic information technology on the enterprise logistics management information system.

Keywords: Electronic Technology, Computer, Logistics Management, Modern Enterprise

1. Introduction
With the continuous growth of e-commerce trade, online transaction volume has been greatly released, which brings great development basis to the development of logistics industry, and also puts forward higher requirements for corresponding logistics supporting services [1]. At the same time, the growth of logistics business puts forward higher requirements for the level of logistics management, and makes the market competition of logistics industry increasingly fierce. How to improve its core competitiveness in the fierce market environment has become the focus of current logistics enterprises' attention and research. On the other hand, with the rapid iteration of computer electronic tech, the current electronic information tech has been in-depth utilization in many industries and fields, and has played a huge function and value. The utilization of computer-based electronic information tech in modern enterprise logistics management information system can effectively improve the level and efficiency of logistics management, and promote logistics enterprises to obtain greater income with lower cost. Therefore, it has gained more and more attention of logistics enterprises.

In addition, with the continuous upgrading of computer and electronic tech, some small and medium-sized transportation logistics enterprises are faced with challenges and pressures from multiple dimensions as shown in Figure 1. Therefore, it is urgent to improve the level and ability of logistics management, so as to lay a survival and development advantage in the cruel market competition. In this context, the use of computer electronic tech to improve the status and level of
In short, the gradual maturity of computer electronic information tech, so that its effect can better provide convenience and services for people's daily life, and as a link between customers and businesses, facing the growing business needs and more challenging development environment, logistics enterprises should make full use of and play the function of computer electronic information tech, so as to continuously improve their own strength, enhance efficiency, and gradually cultivate their own core competitiveness. Therefore, it is of great practical value to study the influence of computer electronic tech on the modern enterprise logistics management information system. Logistics management has become the survival and development opportunities and hopes of many small and medium-sized logistics enterprises.

2. Modern enterprise logistics management information system

2.1. Enterprise logistics warehouse management information system

In order to improve the market competitiveness, enterprises need to constantly exceed the expectations of users, which require innovation and reform of business and process. Through scientific analysis, planning and design, according to the logistics characteristics of different enterprises, the reasonable storage scale, and layout and distribution scheme are designed. The informatization of modern enterprise logistics warehouse management has become the trend of warehouse management, and spawned the development of warehouse management WMS system. WMS system is based on computer control to achieve warehouse management, as shown in Figure 2.
In addition, it also has the functions of information, order checking, order picking, goods receiving, and WMS. WMS system integrates a lot of computer electronic tech and information tech, so as to build a perfect warehouse management system, improve the operation efficiency and make full use of information resources.

2.2. Modern enterprise logistics transportation management information system
Modern enterprise logistics and transportation management information system (MIS) plays an important function in promoting the maximization of economic benefits of modern enterprises' transportation series, as well as the optimization of service benefits, and can effectively help enterprises solve the problems of logistics management [2]. Through effective coordination and management in the transportation process, MIS realizes the real-time monitoring, coordination and intelligent management of various resources, so as to meet the information needs of customer service and realize the efficient utilization of resources. The business process of transportation management information system is shown in Figure 3.

![Figure 3. Business process of transportation management information system.](image)

In addition, the functions of MIS include vehicle management, transportation business management, task list management, waybill return management, query report, vehicle and goods tracking, monitoring center management and cost settlement management.

2.3. The information system of modern enterprise logistics order management
As an important part of modern enterprise logistics management system, order management information system mainly manages and tracks the orders issued by customers, dynamically grasps the progress and completion of orders, improves the operation efficiency in the logistics process, thus saving operation time and cost, and improving the market competitiveness of logistics enterprises [3]. The main functions of order management system are to provide one-stop supply chain service for users' integration, to realize the integration of warehousing, transportation and order in logistics management, and to meet the needs of logistics system informatization. The order management process of modern enterprise is to give quotation based on customer inquiry, and then generate purchase order after receiving formal sales order from customer. After receiving the supplier's production confirmation, send the sales order confirmation and delivery notice to the customer, and track the order payment.

2.4. Modern enterprise logistics electronic order system
Similarly, as an important part of modern enterprise logistics management system, electronic ordering system (EOS) is a system that uses communication network and terminal equipment to exchange order operation and order information [4]. According to the utilization scope, EOS can be divided into enterprise EOS, between retailers and wholesalers, and between retailers, wholesalers and production. Generally, EOS has the following typical characteristics. First of all, EOS based on computer information tech can generate high-quality order information in real time. Secondly, it can satisfy the timely and accurate information transmission between retailers and suppliers. In addition, as the whole
operation system between retailers and suppliers, EOS transmits order information through computer network.

The utilization of EOS in modern enterprise logistics management information system can significantly shorten the time from order receiving to delivery, as well as the delivery time of ordering goods, and reduce the error rate of commodity orders. EOS can also reduce the inventory level of enterprises, improve the efficiency of enterprise inventory management, help enterprises adjust production and sales plans, and thus improve the overall efficiency of enterprise logistics management information system.

3. The data description of modern enterprise logistics management information system

3.1. Modern enterprise logistics management information system

The modern enterprise logistics management information system is a collection of logistics management data stored in a certain organizational way, and serves the specific logistics management utilization of enterprises [5]. Secondly, the system uses data for transaction processing to support decision-making, and has strong data independence, redundancy and sharing, which is easy to implement unified management and control, and has strong modifiability, scalability, security and confidentiality. The operators of this system pay more attention to the hardware characteristics and storage devices, realize the data organization and access, and realize the mapping from logical structure to physical structure.

3.2. Data description of logistics management information system

The entity relation model of logistics management information system reflects the internal and inters entity relations [6]. A heterogeneous population can be decomposed into many homogeneous populations. The types of connections include one-to-one, one to many, and many to many. According to the materials collected in the stage of logistics management information analysis, entities are abstracted by means of classification, aggregation and generalization, and various relationships are described according to the attributes of entities. The logistics management model of enterprises is shown in Figure 4 below.

![Diagram](image-url)

Figure 4. Computer aided digital processing process of remote sensing image.
4. The influence of computer electronic information tech on enterprise logistics management information system

4.1. The adjustment and coordination of resources have been strengthened
First, based on the above analysis, it can be seen that the utilization of computer electronic information tech in the enterprise logistics management information system significantly optimizes the resource allocation and improves the utilization rate of resources. Secondly, electronic information tech improves the management level of logistics enterprises to a large extent. Through the digital processing of the overall allocation of enterprise resources, it helps enterprises to realize the rational allocation and use of resources. In addition, it can meet the needs of business e-commerce, digital production monitoring, effective quality management, logistics and transportation network, and improve its economic benefits and market competitiveness.

4.2. The decision-making mode of the enterprise is more accurate
Small and medium-sized enterprises are often in a disadvantageous position in terms of resource base, information access channels and market share. Therefore, these enterprises need to pay enough attention to information acquisition. Logistics management industry is very dependent on the comprehensiveness and accuracy of information. Based on electronic information tech, it can achieve comprehensive and timely information acquisition and help enterprises make more accurate decisions. In addition, the utilization of computer electronic information tech can improve the current situation of lack of market information of small and medium-sized enterprises, help enterprises grasp the latest market trends as soon as possible, and improve the quality of management decision-making.

5. Conclusion
In summary, the utilization of computer-based electronic information tech in modern enterprise logistics management information system can effectively improve the level and efficiency of logistics management, and promote logistics enterprises to obtain greater benefits with lower cost. Logistics enterprises should make full use of and play the function of computer electronic information tech, so as to constantly improve their own strength, enhance efficiency, and gradually cultivate their own core competitiveness. Through the analysis of modern enterprise logistics management information system, this paper studies logistics transportation management, order management, information system and warehouse management system. Through the research on the data description of enterprise logistics management information system, this paper analyzes the data description of logistics management information system. Through the analysis of the influence of computer electronic information tech on the enterprise logistics management information system, this paper studies the specific impact on the adjustment and coordination of resources and the decision-making mode of enterprises.

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