

Analysis of Strategies of Computer Network Engineering Construction for Medium-sized Enterprises

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Abstract. Modern enterprises can achieve optimized information communication among supplier, customers and employees via information communication. So, computer network engineering construction plays a decisive role in enterprise development, which makes its application become increasingly wide. This paper takes computer network engineering construction of Chinese enterprises as the object of study, analyzes current situations of computer network engineering construction of Chinese enterprises, deeply studies and discusses strategies for computer network engineering construction in order to provide some reference for computer network engineering construction of medium-sized enterprises.

Introduction

Scientific and technological development changes quickly. Through combination of computer technology and communication technology, network technology gains rapid development. Nowadays, the computer and network have been closely combined. Besides, the whole society cannot break away from network. Network technology has become the mainstream of modern information technology. Peoples' cognition of network changes quickly as network application gradually popularizes.

Currently, as information technology industry develops rapidly, an increasing number of enterprises have realized information technology can reduce operation cost, improve working performance and increase benefit. Various enterprises increase the input in information construction according to industrial features and specific operation conditions and actively drive development of enterprise information construction in depth and breadth. Network construction of Chinese enterprises and especially medium-sized enterprises are underway like a raging fire. Some enterprises gradually realize wide development prospect of information construction, start to list information construction in enterprise development strategies and take the initiative to increase the investment in this field. This paper firstly analyzes current situations of computer network engineering construction of medium-sized enterprises, studies overall construction strategy of computer network engineering of medium-sized enterprises, summarizes these measurements and points out development tendency of computer network engineering construction of medium-sized enterprises [1].

Current situations of computer network engineering construction of medium-sized enterprises

Due to the production and operation features of medium-sized enterprises, such as few high-quality personnel, strong personnel mobility and difficult information management, the overall level of informatization management of computer network engineering construction by Chinese medium-sized enterprises is low and there are obvious limitations and shortcomings, mainly including the following:

(1) China's relevant legal construction lags behind. Application and development of computer network engineering depend on formulation of related legal framework. Benign cyclic development can be promoted only through formulating a series of rules and standards, further optimizing policy and legal environment of enterprise informatization and creating a fair platform for computer network engineering construction. However, informatization of medium-sized enterprises and

e-commerce develop slowly in China. The relevant laws in China are simple. It is hard to guarantee safety and legality of informatization of medium-sized enterprises.

(2) Chinese enterprises fail to fully cognize computer network engineering construction. Since some enterprises do not fully cognize the promotion function of informatization management, their support force in technology, fund and communication infrastructure construction is insufficient. Besides, some local governments do not fully drive information construction, fail to provide favorable support environment and connection mode for enterprise informatization and fail to give play to promotion function of enterprise informatization.

(3) Information-based service organizations do not develop perfectly. The overall service level is not high. Currently, most commercial websites of Chinese enterprises mainly aim to post message and lack information interactions.

(4) Some Chinese enterprises fail to full utilize convenience brought by internet. Since they do not fully cognize convenience of internet transactions, online material purchase, project management, information exchange and information release do not develop well. Relative to foreign countries, there is a large gap. Chinese relevant enterprises do not rally implement computer network engineering construction.

(5) Some enterprises in China lack the personnel for computer network construction. Since there is no compound-type personnel familiar with business with profound computer knowledge, there is lack of main force and powerful pushers for information and network construction. Besides, for a long time, enterprises separate to carry out training of professional computer knowledge and management knowledge. There is lack of education and training of compound-type personnel. Thus, personnel are too single [2].

Necessity of computer network engineering construction for medium-sized enterprises

Computer network engineering construction is the need of enterprise competence construction

Computer network engineering construction closely links information and network construction with enterprise development. Through changing enterprise working environment and management mode, computer network engineering construction makes enterprise managers adapt new management and innovation abilities and enhances enterprise development and innovation abilities. Computer network engineering construction has become a mark to measure enterprise modernization level. It thus can be seen that computer network engineering construction with continuous development is a root approach for enterprises to develop informatization. Computer network engineering construction will become a new platform for creative development of enterprises.

Computer network engineering construction is an important guarantee for enterprises to welcome the era of knowledge economy

In the era of knowledge economy, people's knowledge will continuously replace machines and plants. This era will be full of cruel knowledge competitions. Future development of an enterprise will depend on its ability to master new knowledge, continuously learn and adapt and its response ability. Computer network engineering construction and optimization of enterprise network have profound significance for changing old-fashioned enterprise management thoughts and ideas, promoting enterprise innovation and reformation of enterprise structure and development mode, accelerating construction of enterprise modernization and entering the world. We cultivate the ability required by enterprises to go to the world, thinking and behavior mode through campus computer network engineering construction.

Computer network engineering construction is one of important symbols of enterprise modernization

As economic globalization develops, various countries in the world speed up the pace of enterprise modernization. The informatization degree has become a significant mark to measure comprehensive national strength. The enterprise is a complex system project for production and recreation. The benefit and modernization degree are obviously of great concern. To speed up reformation of China's

computer network engineering construction and realize the change to capital-intensive and technology-intensive industries from labor-intensive industries, it is required to integrate enterprises, colleges and the world, achieve multilevel development and rational allocation of human and material resources, liberate enterprise productivity and creativity and add new advantages for modern enterprises [3].

Computer network engineering construction can improve enterprise benefit

Computer network engineering construction brings unprecedented changes to enterprises, makes spatial place virtualized, enterprise office paperless, time utilization efficiency maximized and human resource saved. Besides, it makes enterprises walk the way of sustainable development, greatly reduces enterprise office and production cost and improves enterprise benefit. Computer network engineering construction for enterprises can greatly improve management efficiency and quality and reduce enterprise management and teaching cost. Meanwhile, production intensification and standardization can be achieved through resource sharing.

Principles of Computer network engineering construction for Chinese medium-sized enterprises

Computer network engineering for Chinese medium-sized enterprises should comply with the principles of advanced technology, complete functions, stable property and economical efficiency. Furthermore, construction, maintenance and operation factors should be considered. Expanded space should be reserved for future development and reformation [4]. The principles are as follows:

Technical advancement and applicability of computer network engineering for Chinese medium-sized enterprises

Technical property and quality index of computer network engineering for Chinese medium-sized enterprises should reach the leading level in China. At the same time, system installation and debugging, software programming and operation should be simple, convenient and suitable for usage habits of most employees. Computer network engineering for Chinese medium-sized enterprises can integrate numerous advanced techniques and reflect the latest development level of current computer software technology and computer network technology and adapt the requirement of medium-sized enterprises in this stage. Meanwhile, the system is oriented to employees from different departments. The system functions should be configured according to the principle of convenience for use, safety in operation and simple operation.

Economical efficiency and practicability of computer network engineering construction for Chinese medium-sized enterprises

It is required to fully take into account of practical development need and development trend of information technology of Chinese medium-sized enterprises and achieve the best cost performance through rigorous and organic combinations according to machine room environment, the designed functions and system configuration scheme conforming to user requirements so as to save engineering investment. Meanwhile, the implementation requirements of system functions, economical efficiency and practicability should be ensured.

Reliability and safety of computer network of Chinese medium-sized enterprises

The design of computer network system of Chinese medium-sized enterprises should be highly reliable. After system fault or interruption due to failure, data accuracy, integrity and consistency should be ensured. Normal operation of the enterprises cannot be affected. Besides, there should be rapid recovery function and a full set of system management strategies to ensure operation safety of the system.

Openness and expansibility of computer network of Chinese medium-sized enterprises

Computer network engineering for Chinese medium-sized enterprises can be designed with existing mature products as the object. In addition, current situations of surrounding information communication environment and technical development trend should be considered. Linkage can be realized for overall server group. Via TCP/IP protocol and network communication port on the computer, long-range control and management of any server of the computer can be realized through

any client. During Computer network engineering construction Chinese medium-sized enterprises, future technical development, use needs and the possibility of updating, expansion and upgrading should be considered. It is necessary to expand system functions according to practical needs. Meanwhile, redundancy should be reserved as far as possible in the scheme design so as to meet future development needs.

Comprehensive management level should improve for Computer network engineering construction of Chinese medium-sized enterprises

Under the precondition where the requirements of most medium-sized enterprises in China for the function, quality, property, price and service are met, optimized system device configuration should be pursued to reduce system cost as far as possible. Computer network engineering system devices of Chinese medium-sized enterprises require efficient, accurate and reliable control. Application server and database server systems comprehensively monitor each server system via management software and can dynamically master and monitor server operation in real time. Work intensity of network administrators and equipment operating maintenance personnel can be greatly reduced through long-distance server management system. Moreover, integral management of system can make the equipment operate under the optimal combination and the best conditions. This can save energy, decrease equipment lose and maintenance cost, improve operation efficiency of the server, reduce fault opportunities and boost comprehensive management level of network administrators.

Strategies for computer network engineering construction of Chinese medium-sized enterprises

Computer network engineering construction of Chinese medium-sized enterprises lags behind. So, in this stage, enterprise informatization development strategies should be based on financial resources, technology, development strategy and market competitiveness. Acceleration of computer network engineering construction is a shortcut to boost core competitiveness of enterprises.

Boost enthusiasm of Chinese medium-sized enterprises to carry out computer network engineering construction

In practical work, it is required to respect the subject function of enterprises, mobilize and promote enterprise enthusiasm to participate in network engineering construction by all means and make Chinese enterprises can actively construct enterprise informatization. It is necessary to drive rapid development of enterprises by use of modern information technology, improve enterprise modern information technology, regard enterprises as the core, gradually drive social informatization construction course through enterprise informatization construction and then boost China's informatization construction.

The government should accelerate infrastructure and legal construction

The government should provide infrastructure and infrastructure and legal for computer network engineering construction. On the one hand, Chinese government should be devoted to high-speed information highway construction and provide a good environment for computer network engineering construction. On the other hand, the government should ensure enterprise informatization development through laws and encourage enterprises for network engineering construction through preferential tax policy.

Set up modern information-based enterprises

It is required to reform enterprise structure, establish modern enterprise system and lay a foundation for computer network engineering construction. Since informatization management thought of some enterprise leaders still stays in the era of planned economy and decision-making level knows little about the connotation and effect of enterprise network engineering construction, it is required to train some enterprise leaders for computer network engineering knowledge, change their thinking and decision-making model, change behindhand management method and reduce effects of individualism. Therefore, enterprise reform must be conducted for computer network engineering construction.

Introduce personnel and improve management and application level of computer network engineering

Personnel are the root of enterprise development. Retaining talent is a precondition for better development of medium-sized enterprises. Meanwhile, it is required to cultivate employees and make them become those with innovation and learning abilities, achieve enterprise development pattern in combination of personnel, knowledge and network, give full play to the capacity of every employee and realize competence management. Medium-sized enterprises should consciously utilize the opportunities brought by knowledge, accelerate development and promotion and occupy a position in market economy.

Conclusions

Medium-sized enterprises occupy a decisive position in China's national economy. Enhancement of computer network engineering construction of medium-sized enterprises can effectively boost core competitiveness of Chinese enterprises, improve enterprise management level. Meanwhile, informatization can be utilized to reform enterprises. Medium-sized enterprises should pay more attention to application strategies, take full advantage of social resources to promote development, utilize information technology to actively develop them and achieve enterprise informatization while enhancing computer network engineering construction.

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