Strengthen the Application Research of Computer Network Management Technology Innovation

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Abstract. With the computer network technology occupying an increasingly important position and role in our daily life, study and work, how to strengthen the computer network management technology and innovative application of computer network management technology has become an urgent problem in the development and application of computer network. In order to strengthen the application effect of computer network management technology innovation, this paper first introduces the application of computer network management technology, and then analyses the innovative application ways of computer network management technology.

Keywords: Computer network management technology; Innovation; Application; Strengthen

1. Introduction
With the rapid development of computer network technology, there are more and more means and ways of computer network management. Computer network management is an important guarantee for the normal operation of computer network. Its main task is to collect and integrate the information of each component of the network. At present, the definition of computer network management has different standards and different understandings, and there are also some differences in the network system structure. People cannot form a unified and acceptable standard. Computer network management is of great significance. Developing and perfecting computer network management technology is an urgent task at present. The application of computer network management is still of great practical significance, so we need to further improve and improve it, so as to better ensure that the level of network management can better provide services for the development of computer network.

2. The significance and function of computer network management technology
2.1. Significance of computer network management technology
Computer network management technology is to control and manage the abundant network resources. The ultimate goal is to ensure that computer network can disseminate relevant information to computer network users in normal environment. Network management technology gives communication criteria between network management stations and management nodes. On this basis, network managers can get the
information they want from agents, and integrate the information, then manage it through the corresponding network management system.

2.2. Functions of computer network management technology
First of all, computer network management technology can effectively manage computer network faults, that is, through computer network management technology in the use of computer networks in the process of troubleshooting and repair. Secondly, the computer network management technology can manage the computer network configuration, which is closely related to the stability and security of the computer network. Through the configuration of computer network, we can continue to define and monitor the network, so as to better achieve some special functions in the network system, and can significantly improve the rational use of computer network. In short, the functions of computer network management technology include network fault management, configuration management, performance management, billing management and security management, as shown in Figure 1 below.

Figure1. Functions of computer network management technology

3. Application status of computer network management technology

3.1. Main application of computer network technology
Computer network management technology is mainly used in the treatment of network faults, through the investigation and elimination of computer network faults and problems to improve the security of computer network operation. In the process of checking and dealing with computer network faults, it is easy to find unscientific, unreasonable and incomplete situations and phenomena of troubleshooting. The emergence of these abnormal situations and phenomena will increase the difficulty of network troubleshooting. In such a situation, strengthening the scientific and systematic management of computer network faults can better help to eliminate computer network faults.

3.2. Main application of computer network management
In the management of computer network, the most basic management content is to deal with the fault of computer network. The application of computer network management technology to the treatment of computer network faults has three advantages. Firstly, when the computer network fails to operate, it determines the specific location and time of the breakdown, so as to provide the corresponding guarantee for the rapid solution of computer network failures. Secondly, computer network management technology can significantly improve the efficiency of solving and dealing with computer network faults. Thirdly, when the computer network fails, the original operation level of the computer network can be restored by means of practical network management.

4. Paths to strengthen innovative application of computer network management technology
4.1. Promoting the professionality of network managers
At present, the process of managing computer networks involves more complicated contents and links, unlike the management of single software in the past, many managers hope to get a practical management proposal. Nowadays, computer management is different from the previous management content and mode, and has more tended to the quality and efficiency of computer network management mode. It should start with the professionalism of computer managers and actively improve their professional quality and work enthusiasm so as to innovate computer network management technology. We could cultivate the professional quality of network managers through regular training, so as to provide sufficient power for the stable and normal operation of computer networks.

4.2. Innovating the application of network security management
In the process of applying computer network, one should judge itself weakness by the characteristics of network system. It should analyze and explore the judged data to avoid the illegal occupation of network resources. In addition, it should enhance the confidentiality and integrity of network resources through practical network management system. In the management of computer networks, we should also pay attention to the content and key points of network management function. The network full management function generally covers querying sensitive information, controlling the operation of network resources and controlling the operation of facilities.

4.3. Strengthening the application of computer network management technology in network performance
In the management of computer network, it also includes the key characteristics of computer network operation, that is, data exchange in computer network system. Therefore, in the computer network management, we need to pay more attention to the data exchange in the computer network system, and put the computer network management into practice by paying more attention to the data exchange.

4.4. Establishing a reasonable interactive information platform
In the process of computer network application, the software of network manager should have good application management ability to effectively guarantee the flexibility of computer network management application. Computer network management needs to continuously update network management technology through the use of different management and facilities in order to better meet the needs of computer network users. In addition, the network also needs to have reliability and intelligence, which requires computer network management managers to apply through multi-layered, multi-directional.

4.5. Strengthening the application innovation of computer network management technology
The innovative application of computer network management technology mainly lies in the application of integrated network management technology, the establishment of data model and the realization of network management platform. Web service technology can solve the problem of connectivity between different applications on heterogeneous platforms. Web service technology is a technology based on XML. The standardization of network management based on XML depends to a great extent on the maturity of Web service technology and the NETCONF protocol based on XML. The application of integrated network management technology is based on the integrated network management technology of NETCONF and Web services, which can effectively make the next generation of network management technology come into being. After the data model is determined, the next generation network management platform based on the integrated network management technology of NETCONF and Web services can be implemented.

5. Conclusions
At present, with the rapid development of social economy, computer network has been widely used in all aspects of people's production and life. At the same time, in this development trend, the network operation standards are also put forward higher requirements, as well as improving the security and stability of computer network operation. Therefore, in order to ensure the stability and security of computer network operation and meet the increasing demand of computer network, we must pay full attention to the role of computer network management and innovate the means of computer network management. Only in this way can we solve the computer network faults and problems, and gradually improve the level of computer
management. This is the case. Only by truly solving the technical problems of network management, can the national economy develop healthily, and finally provide practical impetus for the development of computer network science, reasonableness and standardization.

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