
A Study on the Informationalized Education Strategy based on High-Speed Network

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초고속 정보통신망을 중심으로한 정보화 교육정책에 관한 연구

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ABSTRACT

In this paper, we are present efficient informationalized education strategy that is used B-ISDN based on high speed network for multi-user and all process associated with it. We are proposed to be strengthen information application as providing multimedia service, international competition over construction of high speed information network, and international competition over being bring up specialist which takes the lead informationalized education policy with the based on high speed information network.

요 약

본 논문에서는 다중 사용자를 위한 초고속 정보통신망으로 B-ISDN을 이용한 효과적인 정보화 교육 정책을 제안하였고, 정보화 교육 정책과 관련된 모든 과정들은 광대역 종합 정보통신망에서 구현한다. 초고속 정보통신망 구축을 통한 국가 경쟁력 강화와 멀티미디어 서비스를 제공함으로써 정보 응용을 강화시키고, 초고속 정보 통신망을 중심으로 한 정보화 교육 정책을 주도할 전문인력 양성을 통해 국가 경쟁력을 강화시킬 것을 제안한다.

1 Introduction

Broadband integrated service digital network is the provision of a wide range of services to a broad variety of users utilizing a limited set of connection types and multipurpose user-network interface. The future B-ISDN is conceived as a universal network supporting different kinds of applications and customer categories. B-ISDN supports switched, semi-permanent and permanent, point-to-point and point-to-multipoint connections and provides on-demand, reserved and permanent

services. Connections in B-ISDN support both circuit mode and packet mode services of mono- and/or multimedia type and of a connectionless or connection-oriented nature and in a bidirectional or unidirectional configuration.

In this paper, we propose efficient informationalized education strategy that is used B-ISDN based on high speed network for multi-user. Also All process associated with informationalized education policy are implemented in high-speed network.

II. High Speed Networks

High speed network is new social indirect funds that is transmitted quickly regardless time and all region, which provided information and services type of variety needed all users. The emerging demand for broadband service and the availability of high speed transmission, switching and signal processing technologies. The improved data and image processing capabilities available to the user. The need to integrate interactive and distribution services and circuit and packet transfer modes into a universal broadband network. In comparison to several dedicated network, service and network integration has major advantages in economic planning, development, implementation, operation and maintenance. While dedicated networks require several distinct and costly customer access lines, the B-ISDN access can be based on a single optical fiber for each customer. The large-scale production of highly integrated system components of a unique B-ISDN will lead to cost-effective solution.

Interworking facilities between high speed network and the other application have to be provided. For example, a customer using dual function software and database set should be able to communicate with B-ISDN service. This simple information application based on B-ISDN model is shown in Figure 2.1.

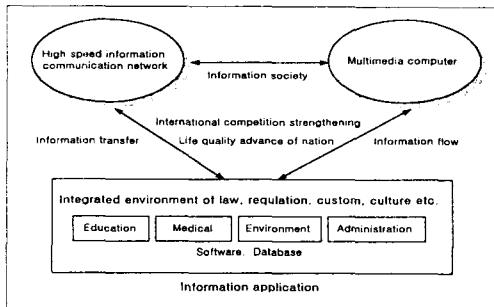


Figure 2.1 Information application based on B-ISDN network model

Information application hierarchical architecture based on high speed information network model uses four layers. Each layer has its own specific functions and offers a defined service to the layer above, using the service provided by the layer below. The function of the layer associated with remote education is

shown in figure 2.2.

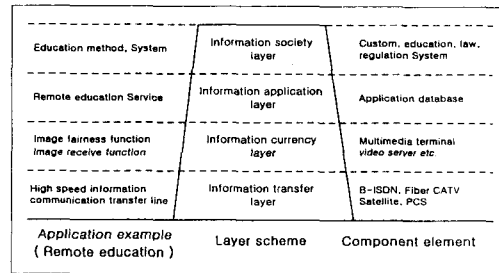
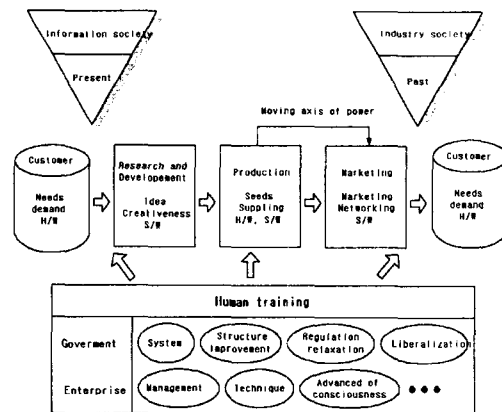


Figure 2.2. Information Application example with remote education

Figure 2.3 shows the benchmarking and team working with high speed information communication base in international competition of global and information age. Customers of past Industry society take H/W requirement seriously, while customers of present information society regard S/W need as importance. Also, research and development discipline currently is activated, production and marketing is exponential increased in computer usage. According to this tendency, government is aim at not only improvement of institution, restraint deduction, and voluntarines, but of enterprise management, technique etc.



High speed Information Communication Base (Informationized) + (Benchmarking + Team Working)

Figure 2.3 International competition of global and informationized age

III. Informationalized education policy in information communication industry society

All process associated with information

education policy are implemented in high-speed network with multimedia such as CALS, internet and open system architecture. Also, we are intend to total solution by system approach and changed structure of pyramid type organization into of horizontal organization. Information education policy is carry out trial of reengineering or restructuring and competition and cooperation in industry discipline.

To promote information education policy in university, we were prepared education base for new acknowledge training. With education renovation over informationalized, education base is provided to student that is learning acknowledge for fact and matter as well as method of working. We constructed education base which is processed learning in multimedia environment and vary learning through information communication technique utilization such as remote communication, integrated subject learning and project learning etc. By acceptance of BK21(Brain korea 21) policy, government will be reconrolled matter associated with informationalized education. We should construct efficient education base over the whole life learning system. We propel whole life education supporting informationalized of society education equipment in university and opening school business. Information Communication institutions were extended for activation of remote education. they is utilized in high speed network, which will be to use education informationalized backbone at wide area connection with the whole country school. We can achieve strengthening of international competition, to propel the business of electrical library, sharing efficient information of research, development in academy discipline. For establishment of professional human needs on high speed network base construction, we operate process of communication software engineer and multimedia software supporting relation business associated with education process which is efficiently provided to student based on informationalized basic schedule. Also, government is established the post-graduate course of a university that have a particular object of study of pursuit of information communication and the common research center which is provide technical assistant to small-to-medium-sized enterprises. its establishment object is to bring up professional human which is lead technique innovation in

the information communication area to strengthen competition of information communication industry and is played role of supporting center of the information communication professional human.

IV Conclusion

The future B-ISDN is conceived as a universal network supporting different kinds of applications and customer categories. Service and network integration has major advantages in economic planning, development, implementation, operation and maintenance. Information application strengthening as providing multimedia service and international competition strengthening over construction of high speed information network. High degree utilization of information communication industry and education insurance of a source and the core technique related to the information communication with multimedia in the center. We are bring up to new acknowledge to promote effective informationalized education policy over its innovation and established hole life learning system over informationalized education policy of social education institution. Finally, we can be strengthen international competition over being bring up to professional human which takes the lead informationalized education policy with the based on high speed information network.

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