A COMPARATIVE CASE OF EFFECTIVENESS OF COMPUTER NETWORK.

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ABSTRACT

Effectiveness of computer network is vital to the success of computer services of Suan Sunandha Rajabhat University in the long run. Computer network in the campus is becoming sophisticated and have a direct impact to the work of students, staff, and faculty members. It is necessary for computer system and network in campus to consider to revitalize the issue of effectiveness of computer network with other network on similar functioning. The main objectives of this study were to compare the effectiveness of computer network from actual experience and expected outcome and to provide the analysis of both pros and cons of campus computer network. This was a research method of qualitative research with the objective to provide the findings of both number and reasoning from questionnaire and from an in-depth interview from three major perspectives namely: students, staff, and faculty members. Each of three group would consist of 5 individuals and each group would participate in a small focus group to explain their insight information and valuable comments about effectiveness of campus computer network. The finding of the study can be reported that there were a small gap of actual experiences and expected experiences of using campus computer network. The level of satisfaction of campus computer network were very high for each group: students, staff, and faculty members. The focus group also revealed important information such as their needs involved the sufficient network and process that can be more accurate with high speed and lower costs and had a quick response to users of the network all over the campus.

Keyword: Campus Computer Network, Effectiveness, Perspectives and Feedback

INTRODUCTION

In general, a network means two or more of computers that are linked in order to share resources. However, campus computer network means all computers in campus that are linked in order to share resources effectively and efficiently. There are three basic types of computer network regarding its size, distance and the structure of the network: LAN or Local Area Network, MAN or metropolitan Area Network, and WAN or Wide Area network. Effective computer networking is vital to the success of modern higher education around the world including Thailand. There are many clear benefits of effective computer networking that can help business and administration easy to implement and grow. There are many benefits of effective networking in campus such as cost effectively resource sharing, improving storage efficiency and sharing, access flexibility, utilization of center database system, and ability to secure valuable information.

Effectiveness of computer network is important and necessary to the success of computer services of Suan Sunandha Rajabhat University in the long run. The image of highly effective computer network is a plus to any higher education organization. Computer network in the campus of Suan Sunandha Rajabhat University is becoming sophisticated and have a direct impact to the works of students, staff, and faculty members. Therefore, their
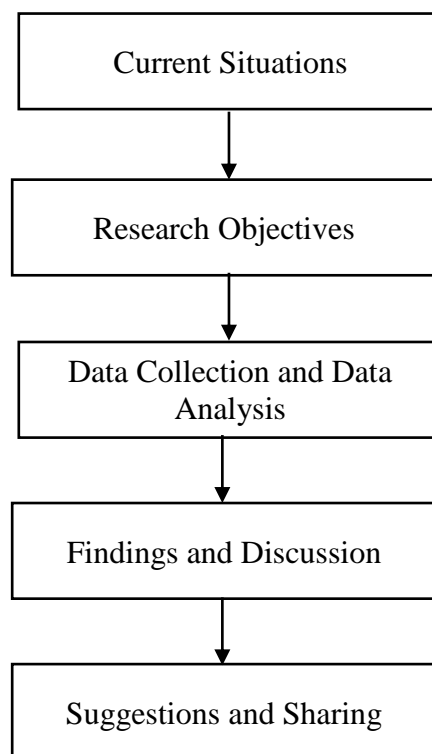
feedback and suggestion are highly recommended to the board of the university who are making the policy. In fact, it is time and place for computer system and network in campus to consider to revitalize the issue of effectiveness of computer network with other network on similar functioning. The aims of this investigation were to compare the effectiveness of computer network from actual experience and expected outcome and to provide the analysis of both pros and cons of campus computer network for future recommendation.

Modern organizations at any size of higher education around the world are increasingly demanding effective computer networking and the fact that sharing resources should means low cost, low risks, and time justification, and to the associated achievement obligation of the academic objectives. Better computer networks relate to the development of skill and knowledge of staff such as general and specific knowledge, skill, and behavior as well as the fund provided by the university each year. In fact, the importance of effective computer network in campus have been increasing in the modern world organization all over the world both in reality and image. Many successful higher education organizations often show that sophisticated and complexity of computer network is their number one priority for the improvements and engagements with better academic obligation. The better image gained from better computer networks will benefits students, staff, and faculty members.

METHODOLOGY

In order to examine the current situation and find the result of this study and sharing to the management of Suan Sunandha Rajabhat University, there are five steps of conducting the study: Finding the information about current situation, Setting up research objectives, Conducting data collection and data analysis, Preparing for findings & discussion, and Offering and sharing valuable suggestions.

Fig 1. Five Process of the Study

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│   Current Situations    │
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│   Research Objectives   │
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│  Data Collection and Data│
│        Analysis         │
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│  Findings and Discussion│
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│  Suggestions and Sharing│
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The main focuses of this study or the main objectives of this study were to compare the effectiveness of computer network from actual experience and expected outcome and to provide the analysis of both pros and cons of campus computer network. This was a research method of utilizing qualitative research with the objective to provide the findings of both number and reasoning from questionnaire and from an in-depth interview from three major perspectives namely: students, staff, and faculty members. Each of three group would consist of 5 individuals and each group would participate in a small focus group to explain their insight information and valuable comments about effectiveness of campus computer network. Since the study utilized mainly a qualitative research with the objective to provide the findings of an in-depth interview from three major perspectives. Each sample group would consist of 5 individuals and each group would participate in a small focus group to explain their insight information and valuable comments. Moreover, contextual description analysis was calculated to obtain the findings for this study. Both primary and secondary data and information are extremely significant for the analysis.

FINDINGS

TABLE 1. IMPORTANCE OF FACTORS

	Agree	Disagree	Rank
Factors			
1. Sharing Costs	15	0	1
2. Time Saving	14	1	2
3. Risk Reduction	12	3	3
4. Better Uses of Technology	11	4	4
5. Enhance Level of Safety	09	6	5

From table 1, important of factors that contributing from effective campus computer networking. The first one is sharing costs in which all fifteen respondents agreed that it was important factors that contributing from effective campus computer network. The second one time saving in which fourteen respondents agreed that it was important factors that contributing from effective campus computer network. The third one is risk reduction in which twelve respondents agreed that it was important factors that contributing from effective campus computer network. The fourth one is better uses of technology in which eleven respondents agreed that it was important factors that contributing from effective campus computer network. Finally the last one is enhancing level of safety in which nine respondents agreed that it was important factors that contributing from effective campus computer network.

In addition, the finding of the study can be reported that there were a small gap of actual experiences and expected experiences of using campus computer network. The gap was insignificant in their perceptions. The level of satisfaction of campus computer network were very high for each group: students, staff, and faculty members. The focus group also revealed important information such as their needs involved the sufficient network and process that can be more accurate with high speed and lower costs and had a quick response to users of the network all over the campus.

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