USER PERCEPTIONS OF WI-FI SECURITY SERVICE IN UNIVERSITI UTARA MALAYSIA

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USER PERCEPTIONS OF WI-FI SECURITY SERVICE IN UNIVERSITI UTARA MALAYSIA

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ABSTRAK

Pada era teknologi dan maklumat, pembangunan teknologi berkembang selaras dengan keperluan pengguna itu sendiri. Akses internet sangat penting untuk mendapatkan pelbagai maklumat yang dikehendaki di seluruh dunia. Sebagaimana internet, berkembang pesat. Mobiliti yang tinggi oleh pengguna dalam pengunakan pelayaran pada setiap masa untuk peralatan elektronik yang dimiliki oleh pengguna. Akses tanpa wayar adalah salah satu penyelesaian yang diapplikasikanpada masa sekarang. Satu rangkaian keselamatan adalah perlu untuk menjaga hak-hak pengguna akses tanpa wayar dan keselamatan adalah salah satu keutamaan yang paling penting. Keselamatan boleh digunakan oleh pengguna atau pembekal perkhidmatan komunikasi itu sendiri. Kerana bahaya mungkin berada di mana-mana sahaja. Terdapat banyak faktor yang boleh mengganggu keselamatan rangkaian. Dalam projek ini, saya akan cuba untuk menggunakan kaedah soal selidik kepada pengguna-pengguna Wi-Fi di Universiti Utara Malaysia, khususnya pengguna di bangunan SOC, untuk mengetahui persepsi pengguna terhadap keselamatan Wi-Fi terhadap perkhidmatan yang disediakan oleh Universiti Utara Malaysia. Semua peserta adalah pelajar SOC dengan jumlah 873 populasi. Saiz sampel yang digunakan dalam projek ini adalah 109 orang pelajar. Tahap keyakinan yang dinyatakan adalah 92% yang mewakili kerahsiaan tinggi. Kajian ini mendapati bahawa aspek pengguna mempunyai hubungan yang positif dengan aspek keselamatan.

Kata kunci: *Wi-Fi, keselamatan, persepsi pengguna*

ABSTRACT

At the time of information technology, the development of technology runs rapidly for the needs of the users themselves. Internet access is very important to obtain any desired information around the world. As well as the internet, it develops rapidly. High mobility of the users is in need of access that can be connected all the time to the electronic device which is owned by the user. A wireless access is one of the exact solutions being applied at the present time. A security network is necessary to keep the rights of the wireless access user and security is one of the most important priorities. Security can be applied by the user or provider of communication services themselves. Because of the danger's security could be from anywhere. There are many factors that can disturb the network security. This project attempt to use the questionnaire methodology to the users of Wi-Fi in the Universiti Utara Malaysia, particularly at SOC building, to find out the perception of the users toward Wi-Fi security service provided by Universiti Utara Malaysia. All participants were SOC students with the total of 873 populations. The sample size used in this project was 109 students. The confidence level stated was 92% which represent a high confidentiality. This study found that the user aspect has a positive relation with the security aspect.

Key words: *Wi-Fi, security, users' perception*

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LIST OF ABBREVIATIONS

IEEE	=	Institute of Electrical and Electronics Engineers
MAC	=	Media Access Control
PSK	=	Pre-Shared Key
SOC	=	School of Computing
UUM	=	University Utara Malaysia
WEP	=	Wired Equivalent Privacy
Wi-Fi	=	Wireless Fidelity
WLAN	=	Wireless Local Area Network
WPA	=	Wi-Fi Protected Access

CHAPTER I

INTRODUCTION

This chapter discusses in detail about the Background, Problem Statements, Research Questions, Research Objectives, Scope of Project, Significance of Project, Organization of Project, and Summary.

1.1 BACKGROUND

Nowadays, any kinds of information can be quickly and widely spread just in seconds. One of them is so called Internet. Human daily activities cannot get rid of it, such as sending all any types of urgent data to a company, sending emails, even to administer any kinds of transactions and other activities. The existence of wireless internet is also quite important for human activities. Along with Internet, activities which are usually time-consuming can be quickly performed.

Wi-Fi is the abbreviation of Wireless Fidelity [1]. It means a standard plot used for Wireless Local Area Networks (WLAN) based on the specification of IEEE 802.11. The most recent standard specifications of 802.11a or b, such as 802.11 g, are currently installed. That new specification provides many improvements ranging from wide coverage to the speed of transfer.

The contents of the thesis is for internal user only

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