A STUDY ON NETWORK INFRASTRUCTURE REQUIREMENT FOR KUBANG PASU LAND OFFICE

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ABSRACT

Phenomenal growth in e-government sectors and the potential of intranet has efficiently centralized the information at local authorities and significantly change the way business is done. The purpose of this study is to propose suitable network diagram and its infrastructure for the Kubang Pasu district land office to implement intranet and extranet services. This study follow Tried and True method proposes by Lucent Technologies to analyze, identify application portfolio and the level of usage of network for each unit.

From this study, the preparations for the network infrastructures are different depend on the system use in the organization and their future planning. Therefore a good planning for the network infrastructure can help in organizing a reliable, expandable and usable network equivalent to government mission in providing e-services through local authorities.

ABSTRAK

Fenomena pertumbuhan sektor e-kerajaan dan potensi intranet dan extranet dalam meningkatkan keberkesanan maklumat pada pihak berkuasa tempatan dan secara drastiknya telah mengubah cara sesebuah perniagaan beroperasi. Tujuan kajian ini dijalankan ialah untuk mencadangkan diagram rangkaian komputer dan infrastruktur yang bersesuaian untuk perlaksanaan perkhidmatan intranet dan extranet di Pejabat Tanah Kubang Pasu mengikut seperti yang telah dicadangkan. Kajian ini berlangsung dan berpandukan kaedah kajian Tried and True yang diperkenalkan oleh "Lucent Technologies" untuk proses menganalisa, mengenalpasti portfolio aplikasi dan tahap penggunaan rangkaian bagi setiap unit dan individu mengikut keperluan di Pejabat Tanah Kubang Pasu.

Daripada kajian yang dijalankan ini, proses untuk menyediakan infrastruktur rangkaian komputer adalah berbeza keperluanya mengikut keperluan system yang digunakan dan juga system yang akan diperkenalkan atau digunakan dalam organisasi. Oleh yang demikian suatu perancangan yang baik dalam menentukan infrastruktur rangkaian boleh membantu dari segi pengurusan suatu rangkaian yang boleh dipercayai, dipertingkatkan dan berguna selari dengan hasrat kerajaan untuk merialisasikan e-kerajaan dan e-perkhidmatan menerusi pihak berkuasa tempatan.

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ACRONYMS

CSMA/CD	-	Carrier Sense Multiple Access with Collision Detection
FDDI	-	Fiber Distributed Data Interface
ICT	-	Information Communication Technology
IEEE	-	Institute of Electrical and Electronic Engineers
JKPT	-	"Jawatan Kuasa Khas Pengambilan Tanah"
KPLO	-	Kubang Pasu Land Office
MADA	-	Muda Agriculture Development Authority
OSI	-	Open System Interconnection
PBN	-	"Pihak Berkuasa Negeri"
PTD	-	"Pegawai Tadbir"
PPTD	-	"Penolong Pegawai Tadbir"
PTG	-	"Pejabat Tanah Galian"
SPTB	-	"Sistem Pendaftaran Tanah Berkomputer"
SPTH	-	"Sistem Pungutan Hasil Tanah"
SUK	-	"Setiausaha Kerajaan"
UPEN	-	"Unit Perancang Ekonomi Negeri"

CHAPTER ONE

INTRODUCTION

In this era of digital world, network computing is very valuable asset for any organization to survive and keep competitive. According to Turban et al. (2002), network computing capable to support discovery of information, communication and collaboration activities in organization. Meanwhile Etheridge & Simon (1992) has said in their book, "Information network is that combination of IT-based components that is designed to meet the requirements for communicating a variety of forms of information, such as voice, data, text, image or any combination of these forms, within or between organizations".

Today, even corporate sectors are leading in utilizing this technology but public sector has also taken promising step to deploy network computing through e-government services (Scherlis & Eisenberg, 2003). E-government refers to the use of IT in general and e-commerce in particular to provide citizens and organizations with more convenient access to government information and services. E-government improves the efficiency and effectiveness of the executive functions of government, including the delivery of public services (Turban et al., 2002).

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