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DATA MGRATION STRATEGY OF HETEREGENOUS SYSTEMS

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ABSTRACT

Data Migration has become main project highlight in information technology and computing field for years now. Many companies and organization has benefited from data migration, to make money out of it by selling tools and infrastructure for data migration processes. Note that data migration project required large amount of funding to be carried out, issues and risk of data migration cannot be delivered up to expectation may be a nightmare to the related organization or client. Without correct and suitable data migration strategy, many data migration projects has failed, go over budget or delivered late. This research is hoped to weight out industrial concern on failed data migration project by proposing the Data Migration Strategy of Heterogeneous System. Context of the Data migration project for this research is moving multiple data sources including legacy system, existing system and application into a single target system or platform. This research is hoped to benefit society especially the organization that will go through data migration project of the same scope with this research.

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TABLE OF CONTENTS

CHAPTER ONE: INTRODUCTION

CHAPTER TWO: LITERATURE REVIEW

CHAPTER ONE
INTRODUCTION

1.1 INTRODUCTION

Chapter one provides the introduction of background for this research. It discusses the problems that led to this research including the research background, the problem statement, research questions, the objectives of this research, and the scopes of this research, the significance of this research and also its limitation. As overall, this chapter is about the understanding on what this research is all about.

1.2 RESEARCH BACKGROUND

Data migration has been widely use around the world to move data from source system A to a target system B. Generally there are many reasons, issues and problems that could lead to data migration as a solution. The growth of business needs and advanced in technology has offer an organization to invest in a new system in order to enhance corporate performance and increase competitive advantage (Laudon & Laudon, 2010).

The introduction of new system could result the consolidation of a number of legacy systems, database migration, application migration or upgrades or development of new requirement to accommodate existing legacy data (Bloor, 2011). Legacy system is typically a backbone of an organization, it consist of all crucial information of an organization business process as well as important data about the business (Wu, Lawless et all, 1997). Thus it is important to thoroughly define the data migration strategy, in order to ensure data are migrate successfully into target system and data quality is preserve to the maximum.

According to Bloor research, more than 30% data migration projects have exceed their allotted budgets and/or deliver late. Key factors that contribute to the data migration chaos are lack of data knowledge – this issue raised because legacy system did not have proper documentation or person with the time and knowledge of the legacy system to provide accurate details of the system. Another key factor is data quality problems – it is crucial for an organization to fix data which is not accurate, not complete and not consistent in the source system (Gaine, 2012).