UNIVERSITI TEKNOLOGI MARA

PRIORITIZATION FACTORS OF ENTERPRISE APPLICATION INTEGRATION (EAI) ADOPTION IN MALAYSIAN e-GOVERNMENT

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Dissertation submitted in partial fulfillment of the requirements for the degree of Master Science of Information Technology

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DECLARATION

I, Mazni Binti Sohimi, hereby declare that the material and work contained in this research titled Prioritization Factors of Enterprise Application Integration (EAI) Adoption in Malaysian e-Government is submitted for the Degree Master of Science (Information Technology), University Technology MARA (UiTM) is my own work. All the sources that I have used have been acknowledged as complete references.

Signature:

ABSTRACT

This dissertation examines the prioritization factors that can influence Enterprise Application Integration (EAI) adoption in Malaysian Government. This research focuses on Human Resource Management Information System (HRMIS) application which has been selected as the case study for this research. The analysis is divided into two parts. The first part is by analyzing the prioritization factors by using Analytic Hierarchy Process (AHP) technique while the second part is through multiple case study and document analysis. The study of these factors in these two parts is based on EAI adoption model that proposed by Kamal *et al.* (2009) and being compared to get the outcome. The results are comprised through a series of tables and one propose framework. Based on the outcomes, it illustrate that ten factors can be classified as most priority factors which must be considered when adopting EAI. Therefore, resulting in this research will guide Malaysian public sector to make a decision before proceeding with EAI adoption in e-Government project.

Keywords: EAI Adoption, e-Government, Local Government Authority (LGA), Human Resource Management Information System (HRMIS)

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