

# **Universiti Teknologi MARA**

**Comparisons between EDI and ebXML Architecture in Business to  
Business (B2B) Electronic Commerce (EC)**

**FITRI ASRAH BT. RAZALI**

**Thesis submitted in fulfillment of the requirements for Bachelor of  
Science (Hons) Information System Engineering  
Faculty of Information Technology And  
Quantitative Sciences**

**MAY 2007**

# **APPROVAL**

## **Comparisons between EDI and ebXML Architecture in Business to Business (B2B) Electronic Commerce (EC)**

**By**

**Fitri Asrah Binti Razali**

**2005616749**

This thesis was prepared under the direction of course coordinator IT Project (ITS 690); Pn. Wan Amalina Wan Hariri and thesis supervisor, Pn Norjan Salika Janom has approved it. It was submitted to the Faculty of Information Technology and Quantitative Sciences and was accepted in partial fulfillment of the requirements for the degree of Bachelor of Information System Engineering.

Approved by:

---

**Pn. Norjan Salika Janom**  
Thesis Supervisor

---

**Pn. Wan Amalina Wan Hariri**  
Thesis Coordinator

**Date: 31 May 2007**

## **ACKNOWLEDGEMENT**

Firstly I would like to pay my gratitude to Allah S.W.T for giving me strength to be able to complete this thesis. I would like to express my appreciation to my supervisor, Norjan Salika Janom who has helped me lots in the making of this thesis. I am grateful to have her as a supervisor and also my mentor. Her guidance and supervision will undoubtedly help me in my future undertakings.

To my beloved friends Adlina Adnan and Norrul Izzah, thank you for sharing information throughout the making of this thesis. This research is impossible without the help from the Project Manager, Pn Sabariah Ali for his information throughout this process. I would like to express my gratitude to Mr BadliShah bin Shahbudin for his guidelines and additional information. Thanks to those who have helped me indirectly or directly in completing this research.

# TABLE OF CONTENTS

<b>APPROVAL</b>	<b>ii</b>
<b>DECLARATION</b>	<b>iii</b>
<b>ACKNOWLEDGEMENT</b>	<b>iv</b>
<b>TABLE OF CONTENTS</b>	<b>v</b>
<b>LIST OF TABLES</b>	<b>vii</b>
<b>LIST OF FIGURES</b>	<b>vii</b>
<b>LIST OF ABBREVIATIONS</b>	<b>vii</b>
<b>ABSTRACT</b>	<b>vii</b>
<b>CHAPTER 1: INTRODUCTION</b>	<b>7</b>
1.1 Research Background	7
1.2 Problem Statement	7
1.3 Research Questions	7
1.4 Research Objectives	7
1.5 Research Scope	7
1.6 Research Significance	7
1.7 Research Limitation	7
1.8 Summary	7
<b>CHAPTER 2: LITERATURE REVIEW</b>	<b>7</b>
2.1 Introduction	7
2.2 History of Electronic B2B Transaction	7
2.2.1 Electronic Data Interchange	7
2.2.2 History of ebXML	7

## **ABSTRACT**

For over 25 years, organizations have used Electronic Data Interchange (EDI) systems to handle business transaction. However, EDI is neither cheap nor simple and is based on private network such as Value Added Network (VAN) .It forces organization into long term, tightly coupled trading relationship with their business partners. EDI also does not stand for free exchanging information and transaction. As e-Business frameworks have evolved from traditional EDI technology to Internet using EDI, it is still not mature enough to allow their broad successful commercial application. All these approaches lack substantial reflection and integration of business semantic as the basic of any electronic commerce partnership. ebXML is a world-wide initiative that tries to solve drawbacks of existing standard and approaches and has the potential to successfully delivery solutions to these problems. Therefore, in this paper, researcher is trying to compare both applications respectively. The comparison will be based on criterion with regard to business architecture since this work focus on B2B application. Researcher gathers information by having an interview with an expert in this field instead make critical analysis based on previous journals and other studies. As a result, EDI is obviously stay back behind the ebXML as it can also fulfill the functionality of EDI and developed based on the investment in and experiences of EDI.