

ONLINE EXPORT-IMPORT MANAGEMENT SYSTEM (OEIMS)

**A thesis Submitted to the Academic Dean Office in Partial Fulfillment
Of the requirement for the degree master of science
(Information & Communication Technology)**

Universiti Utara Malaysia

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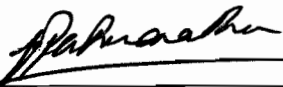
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ABSTRACT

Nowadays business looks to expand internationally to get more profit. This paper will discuss about Online Export-Import Management System (OEIMS) is the new arena of international business which can able to overcome present barriers such as it can make the tax procedure transparent, no money laundering, reduce the paper based work which makes OEIMS faster. The paper will analyze what are the current processes of the Export-Import Management System and the requirements of an Online Export-Import Management System (OEIMS). It aims to design a requirement model of an Online Export-Import Management System and evaluate the prototype based on its compliance OEIMS system.

Acknowledgement

“IN the Name Of Allah the Most Gracious and Most Merciful”

*Praise be to ALLAH for helping me to accomplish this humble study. Also, my thanks to ALLAH who has seen me through to this level in my academic achievement, I would like to seize this opportunity to extend my gratitude to **Dr.Mohd Syazwan Abdullah** for kindly supervising this study, her priceless instruction and valuable directions had great role in the accomplishment of this report, my evaluator **DR.Mohamad Farhan Mohamad Mohsin** for his suggestions and help.*

I would like also to thank all my instructors in the College of Arts and Sciences in the University Utara Malaysia (UUM) for their support.

*The final and the most important acknowledgment are owed to my **PARENTS,BROTHER, SISTERS, and all my FRIENDS***

Thank you UUM

Mohamed Saad Mahoub

13th May, 2010

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CHAPTER ONE

1.0 INTRODUCTION

1.1 Background

The benefits derived from import and export business is increasing in globalized marketplace. However, for many smaller-sized manufacturers the internationalization path is beset by numerous obstacles. The impact of export and import barriers is found to be situation-specific, largely depending on the characteristic managerial, organizational, and environmental background of the firm. However, certain barriers, such as those relating to information inefficiencies, price competitiveness, foreign customer habits, and politico economic hurdles, seem to have a systematically strong obstructing the effect on export behavior.

While the world spins into the end of first decade of the twenty-first century, dramatic and swift transformations are taking place in international trade: growing liberalization of trading systems; expansion of regional economic integrations; excessive liquidity in financing cross-country purchases; and increasing connectedness with customers and marketing partners due to major advances in information, communication, and transportation technologies (Keegan 2002). This has led to the emergence of a business environment that has never been so globalized, interdependent, and connected, widening in this way both the scope and scale of opportunities open to sellers.

Online is the condition of being connected to a network of computers or other devices. A business provides its customers to access business data over telecommunication line. This is known as online service. Online service includes email

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Reference

Andersen, Poul H. (2005) Export intermediation and the internet: an activity-unbundling approach *International Marketing Review* Vol. 22 No. 2, pp. 147-164

Anold, B. (2006). Caslon Analytics taxation guide Retrieved on 09/10/2009 from <http://www.caslon.com.au/taxationguide2.htm>.

Bogetic, Z & Hillman, A. (1995) *Financing Government on the transition: World Bank Regional and Sectoral Series*, World Bank, Washington D.C.

Baumgartner, Thowaway prototyping Baumgartner, 2001 E Diewert - NBER Working Paper, 1986 - papers.ssrn.com

Basu, S. (2003) Implementing e-commerce tax policy. 18th BILETA Conference: Controlling Information in the Online Environment. QMW, London.

Czinkota, M.R, Ronkainen, I.A (2001), *International Marketing*, 6th ed, Harcourt College Publishers, Orlando, FL.

Czinkota and Ronkainen (2001); Terpstra and Sarathy (2000), *An Analysis of the Barriers Hindering Small Business Export Development*.

Coakes, S. J. (2005). *SPSS version 12 for Windows Analysis Without Anguish*. Sydney: John Wiley & Sons Australia.

Doole, I. and Lowe, R. (2001), *International Marketing Strategy - Analysis, Development and Implementation*, Thomson Learning, 3rd Ed.

D Wagner, K Head, JC Ries - Scottish Journal of Political, 2002 - papers.ssrn.com.

E Diewert (1986) Export Supply and Import Demand Functions

<http://www.wisegeek.com/what-is-an-import-export-business.htm> How to start an Import export business on the Internet?

<http://www.gestbiz.com/articles/Article/How-to-start-an-Import-export-business-on-the-Internet-/17764>Tigres The export & import system

<http://www.oilit.com/2journal/2article/0011/0008.pdf> 19 Original Export and Import

http://www.di.unipi.it/~ghelli/didattica/bdl/B19306_01/server.102/b14215/exp_imp.htm

export import

<http://www.oclc.org/support/documentation/connexion/client/authorities/exportimportauth>
[h/export importauth.pdf](http://www.oclc.org/support/documentation/connexion/client/authorities/exportimportauth.pdf) <https://www.imf.org/external/np/sta/tegeipi/ch15.pdf>

Javalgi, Rajshekhar G., Martin, Charles L., and Todd, Patricia R. (2004) The export of e-services in the age of technology transformation: challenges and implications for international service providers *Journal of Services Marketing* Volume 18 · Number 7 · · pp. 560-573

Ghezzi, et al (1991) an object-oriented approach using the Unified Modeling Language UML

Ghauri, P., Lutz, C. And Tesfom, G. (2003) Using networks to solve export-marketing problems of small- and medium-sized firms from developing countries *European Journal of Marketing* Vol. 37 No. 5/6, pp. 728-752

Henrik B. (2002). Requirements Analysis and Prototyping using Scenarios and Statecharts

Hitt, M., Keats, B. and DeMarie, S. (1998), "Navigating in the new competitive landscape: building strategic flexibility and competitive advantage in the 21st century", *Academy of Management Executive*, Vol. 12, pp. 22-42.

Leonidou, L. (2002), "Overcoming the limits of exporting research using the relational paradigm", *International Marketing Review*, Vol. 20 No. 2, pp. 129-41

Lenonidas C, Leonidou, (2004), *An Analysis of the Barriers Hindering Small Business Export Development*

Keegan, W. J. 2002. *Global marketing management* (7th Ed) Upper Saddle River, NJ: Prentice-Hall. (5th ed. available in library)

Musila, Jacob W. (2004) *The common market for Eastern and Southern Africa and Kenya's export trade* *International Journal of Social Economics* Vol. 31 No. 1/2, pp. 67-77

MR Czinkota, WJ Johnston - *Journal of International Business Studies*, 1983 - jstor.org

Nellen, A. (2003). *Overview to E-Commerce Taxation Guide to understanding the current Discussions and debates* *Coolege of Business San Jose Sate University*

Novicevic, M. and Harvey, M. (2001), "The changing role of the corporate HR function in global organizations of the twenty-first century", *International Journal of Human Resource Management*, Vol. 12, pp. 1251-68.

Novicevic, Milorad M. and Harvey, M. (2004) *Export-import relationships in a global organization: a relational contracting analysis of subsidiary behavior* *International Marketing Review* Vol. 21 No. 4/5, pp. 378-392

Online service, retrieved on 15th December from http://www.webopedia.com/TERM/o/online_service.html

PA Samuelson - The Review of Economics and Statistics, 1964 - jstor.org

Pons, A., Aljifri, H. and Fourati, H. (2003) E-commerce and Arab intra-trade Computer Information Systems Vol. 16 No. 1, pp. 34-48

Peterson, M. (1998), "Embedded organizational events: the units of process in organizational service", *Organizational Science*, Vol. 9 No. 1, pp. 16-33.

Ricardo, D. (1911), *The Principles of Political Economy and Taxation*, J.M. Dent/E.P. Dutton, London/New York, NY,

Pallant, J. (2007). *SPSS Survival Manual: A Step by Step Guide to Data Analysis Using SPSS* (3rd ed.). Wellington, New Zealand: Allen and Unwin.

De Santis, R.A. (2000), "Optimal export taxes, welfare, industrial concentration, and firm size: a general equilibrium analysis", *Review of International Economics*, Vol. 8, pp. 319-35.

R Safavi-Naini, NP Sheppard, T - Proceedings of the 4th, 2004 PA Samuelson - The Economic Journal, 1952 - jstor.org

Kardaras, D. and Papathanassiou, E. (2000) The development of B2C e-commerce in Greece: current situation and future potential *Internet Research: Electronic Networking Applications and Policy* Volume 10 . Number 4. pp. 284-294

Kshetri, N. (2009) The evolution of the Chinese online gaming industry in China *Journal of Technology Management* Vol. 4 No. 2, 2009 pp. 158-179

Siliafis, K. (2006). Taxation of e-commerce a task for jugglers

Seminario, M. (1999) A United Nations proposal for a bit tax to for internet access in developing nations is drawing fire from U.S. Lawmakers and high-tech executives. ZDNet News.

Salin, V. and Nayga Jr, Rodolfo M. (2003) A cold chain network for food exports to developing countries International Journal of Physical Distribution & Logistics Management Vol. 33 No. 10, pp. 918-933

What is online trading retrieved on 15th December from <http://www.wisegeek.com/what-is-online-trading.htm>. Johnson on August (2009), Export and import management of physical goods.

Zhang, C., Cavusgil, S. and Roath, A. (2003), "Manufacturer governance of foreign distributor relationships: do relational norms enhance competitiveness in the export market?", Journal of International Business Studies, Vol. 34 No. 6, pp. 550-66.

Zikmund, W.G. (2000) Business research Methods (3th ed.), fort worth: Harcourt College Publishers.