

探討影響資訊安全管理系統擴散的決定因素

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摘要

由於資訊科技及網際網路的蓬勃發展，資訊安全管理儼然是目前企業最重要的研究議題之一，特別是目前已有許多企業已導入資訊安全標準(例如 BS7799 or ISO27001)並建置資訊安全管理系統(information security management systems, ISMS)，以達成資訊安全管理目標。本研究以科技-組織-環境(Technology - Organization-Environment, TOE) 架構探討影響資訊安全管理系統擴散的決定因素，研究發現在科技構面中有兩項因素(科技準備能力、ISMS 相容性)、組織構面中有兩項因素(公司規模、ISMS 與公司策略的配適度)、環境構面中有一項因素(夥伴影響)對 ISMS 擴散程度有非常正向著的影響。本研究的發現可以提供已導入或正準備導入 ISMS 的企業參考，以期能順利成功的導入 ISMS 並進一步為企業提升資訊安全管理的效益與成效。

關鍵詞：資訊安全管理、資訊安全管理系統、科技－組織－環境架構

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Investigating the Determinants of Information Security Management Systems Diffusion

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Abstract

As information technology and Internet are rapid developed and widely used, information security management becomes one of the most important research issues to business, especially now there are many companies implement information security management systems (ISMS), e.g. BS7799 or ISO27001, to maintain their information assets safety with confidentiality 、 integrity 、 availability. The aim of this research is to investigating the determinants of ISMS diffusion from the Technology–Organization- Environment (TOE) viewpoint. The finding results show that two factors (technology readiness and compatibility) in technology dimension; two factors (company size and ISMS strategy fit organization strategy) in organization dimension, and on factor in environment dimension (partner influence) significantly influence the ISMS diffusion. These findings could provide valuable determinants to those enterprises which are planning to introduce and implement ISMS. Taking these determinants into account, it is expected that enterprises will successfully implement ISMS and gain their benefits and advantages.

Keywords: Information Security Management 、 Information Security Management Systems (ISMS) 、 Technology–Organization-Environment (TOE) framework