

RESEARCH REPORT

**STATUS INFORMATION SECURITY MANAGEMENT SYSTEM
POLICY BASED ON BS7799 FOR IT DEPARTMENT IN PUBLIC
UNIVERSITIES IN NEARBY KLANG VALLEY**

CODE: P(1)/A/2006

RESEACHERS:

WAIDAH ISMAIL

PROF BACHOK M. TAIB

NAJWA HAYAATI MOHD ALWI

AZLAN MOHD GHAZALI

**KOLEJ UNIVERSITI ISLAM MALAYSIA
SEPTEMBER 2006**

Perpustakaan KUIM



1000025606

ABSTRACT

Information Security Management System is a systematic approach to managing sensitive information so that it remains secure. This research is to evaluate and analyze current status of security practice at the public universities, to identify the risk on asset based on the assessment guideline from ISO27001:2005 and lastly to determine policies in the Information Security Management System. The scope of this research is focus on the public universities in Klang Valley and based on the Plan Do Check Act Model in the ISO27001:2005. The methodologies that use are questionnaire, interview and plan section are distributed to the System Administration of the related public universities. After collecting the data, analysis of the data is done by calculating compliance issues by a calculation of the percentage and correlation coefficient. From the result all of the public universities in Klang Valley have aware about ISMS policy except one public university. From the current status security policy based on the ISO27001:2005, mostly all the public universities have security policy based on the MYMIS guideline from MAMPU. As for the conclusion, the public universities involved agreed that the government should make it compulsory on the certification of ISO27001. Chapters of the report presentation are based on individual of the objective in the research.

ABSTRAK

Sistem Pengurusan Keselamatan Maklumat adalah suatu pengurusan keselamatan yang sistematik supaya maklumat-maklumat berada di dalam keadaan selamat. Penyelidikan ini bertujuan untuk menilai dan menganalisa situasi terkini di Institusi Pengajian Tinggi Awam (IPTA) sekitar Lembah Klang. Penyelidikan ini juga menganalisa risiko asset yang sedia ada di IPTA terbabit berlandaskan garis paduan ISO27001:2005 and akhir sekali menentukan polisi keselamatan yang sesuai dan berkesan kepada Sistem Pengurusan Keselamatan Maklumat. Skop penyelidikan ini tertumpu kepada IPTA di Lembah Klang yang berdasarkan kepada Model *Plan Do Check Act* di dalam ISO27001:2005. Kaedah penyelidikan yang digunakan adalah temubual, soal selidik dan juga “*Plan*” seksyen, yang diagihkan kepada *System Administrator* di IPTA tersebut. Selepas data dikumpul, analisis data dilakukan dengan mengira isu-isu yang berjaya dipatuhi iaitu dengan mengira peratusan dan kolerasi kofisien. Keputusan dari analisis menunjukkan kesemua IPTA mengetahui kewujudan Sistem Pengurusan Keselamatan Maklumat kecuali sebuah IPTA sahaja. Berdasarkan , status terkini maklumat polisi keselamatan ISO27001:2005, kebanyakan IPTA mempunyai polisi keselamatan yang merujuk panduan MYMIS dari MAMPU. Sebagai kesimpulan, IPTA terbabit bersetuju agar kerajaan mewajibkan semua IPTA mendapat sijil ISO27001. Setiap bab di dalam laporan penyelidikan ini membentangkan objektif individu di dalam penyelidikan.

BIBLIOGRAPHY

- Ang, B L. 2001. "Tech criteria for lean times". *ComputerWorld*. (2). November. pp 25 – 26.
- BS7799. 2002. "*British Standard 2002, Preparing for BS7799 Certification*". British: BS7799.
- Caralli. A. R and Wilson, R, W 2003 "*The Challenges of Security Management*" Chamber, J. 26th July 2005.
http://www.cisco.com/en/US/about/security/intelligence/05_07_security-culture.html.
- Chian, S H, Eerola, K, Don, N, Nair, D, Kenneth, S, Alan, S. 2001. "IT Security: How Strong Is Your Back Four?". *ComputerWorld*. (2): November. pp. 10 –12.
- Dr. Brewer. D. 2002. "Spotlight on Incidents" The 7799 International user Group (IUG). *ISMS Journal*. Issues 1, October 2002.
- Eloff, J & Eloff, M. 2003. "Information Security Management – A New Paradigm". *SAICSIT*. pp. 130 – 136.
- Hyun- Sin Won (n.a). "Certification Launch in Korea" *The BS7799 International user Group (IUG)*. *ISMS Journal*. Issues 2, Feb 2003.
- Jalil, A. S "*ISMS Seminar – ISO/IEC 17799:2005 – Past, Present and Future*" (Slide). Malaysia Niser.
- Johnstone. D. 2003. "Promoting Information Security in Hong Kong" *The BS7799 International user Group (IUG)*. *ISMS Journal*. Issues 2, Feb 2003.
- Johnstone. D. 2002. "Certification In Hong Kong – Out off the Blocks" *The BS7799 International user Group (IUG)*. *ISMS Journal*. Issues 1, October 2002.
- Johnstone, D 2002 : "BS7799-2 Inception to Certification" – Presentation slide.
- Kadam, A. 1 August 2005. "Are you a Security Organization?".
<http://www.networkmagazineindia.com/200211/security2.shtml>.

- Kern, A., Kuhlmann, M, Schaad, A & Moffett, J. 2002. "Observations on the Role Life-Cycle in the Context of Enterprise Security Management". *ACM SACMAT* 02. (1-58113-496-7/02/0006). June. pp. 43 – 51.
- Lee, H M. 2001. "Security technology for the information era". *ComputerWorld*.(2). November. pp 14.
- Malaysia. 2006. Unit Pemodenan Tadbiran & Perancangan Pengurusan Malaysia, Jabatan Perdana Menteri. *Dasar Keselamatan ICT MAMPU*. Versi. 4.0.
- Malaysia. MAMPU website. 20 June 2006 [www. mampu.gov.my](http://www.mampu.gov.my).
- n.a. 23 July 2005.
http://itsc.my.standardchartered.com/csc/main/itsc_main_malnew.asp
- n.a. 8 August 2005. <http://www.ital-itism-world.com>
- n.a. 19 October 2005
<http://www.bsiamericas.com/InformationSecurity/Overview/index.xalter>
- n.a 19 October 2005
<http://www.bsiamericas.com/InformationSecurity/Overview/WhatisanISMS.xalter>
- n.a 19 October 2005
<http://www.bsiamericas.com/InformationSecurity/Overview/WhatisBS7799.xalter>
- n.a. 31 December 2005 <http://www.iso17799-web.com/issue10.htm>
- n.a 31 December 2005. "Malaysia ISMS Survey" <http://www.niser.org.my/isms>
- n.a 31 December 2005 "Bank Islam: First Bank To Receive BS7799:2-2002 From SIRIM QAS"
http://www.bankislam.com.my/cms/default.asp?cms_articleID=124&languageID=0
- n.a 31 December 2005 "Sapura Technology Berhad adds another Malaysian "FIRST" with the certification to British Standard 7799 for ITS Information Security Management System" http://www.sapura.com.my/pr_sept_2.html
- n.a 31 December 2005 "Companies Certified to BS 7799 in Singapore and Malaysia." http://www.eqsasia.com/BS7799_Certified.htm
- n.a 2 January 2006 "The Market For Certification" *ISMS Journal. Issues 5, Nov 2004*"

- n.a. 2 January 2006 “*Why should I certify my ISMS?*”
<http://www.atsec.com/01/index.php?id=06-0101-01>
- n.a 17 July 2006 <http://mathbits.com/MathBits/TISection/Statistics2/correlation.htm>.
- Pattison F. 2004 “7799 History lesson Part 1” ISMS Journal. Issues 5, Nov 2004
- Ramesh, R. 2004. “Hackers in it for the money”. *Star In-Tech*. 27 January. pp 3
- Schwalbe, K. 2004. “*Information Technology Project Management*”. Third Edition. n.pl.: Thomson Course Technology.
- Sec. A 31 December 2005 “*Security – holistic, certified and audited*” <http://star-techcentral.com/exclusives/ecopnet/story.asp?file=/2003/2/18/Securityholisticcertifiedandaudited&sec=exclusives>.
- Standstrom. Olof (2004) “Security, Measure to improve” ISMS Journal. Issues 5, Nov 2004.
- Sreeraj Gopinathan. 2005. “ Understanding ISO27001” *Tech & U About and Beyond ICT*. *New Straits Times*. Pg 12. 24 July Weil, S. 18 July 2005. “How ITIL Can Improve Information Security”.<http://www.securityfocus.com/infocus/1815>