

ABSTRACT

The development of information technology helps the performance and functions of institutions. The institutions applying information technology are required to maintain its information security to ensure fast and accurate information management to avoid downtime or breach. XYZ as an institution already using information technology in its day-to-day operation has yet to implement comprehensive measures to secure and protect its information. XYZ has not put in place a sound access control and lacks secure and supervision on important worksites (server room, archive room). Such practice is prone to unauthorized access. Moreover, XYZ institution has not deployed any security measures to detect and prevent unauthorized network access (including wireless network). Therefore, an assessment to XYZ institution to find out the maturity level and integrity of its information security is needed. The evaluation was performed using Information Security Index or Indeks Keamanan Informasi (KAMI) issued by the Department of Communication and Information that already in compliance with the requirements and aspects of the information system of ISO 27001. The method used was a qualitative method, i.e., KAMI Index as the measurement to assess the management of information security system in XYZ institution. The result of the KAMI Index assessment in XYZ institution shown that the level of dependency towards the Electronic System is considered as high and the level of preparedness in the management of information security is not feasible and sets on the level I-I+ or at an initial condition of information security deployment. Therefore, XYZ must review and improve its security control by issuing appropriate information security policies and procedures according to IT/IS by considering its preparedness and resources to have an effective and efficient management of information security system.

Keywords — assessment, KAMI index, information security