

## **ABSTRACT**

XYZ Institution is a higher education institution in Indonesia that focuses on developing human resources in the government sector. During 2022, XYZ Agency's official website was hacked twice and they had not carried out an ISMS using the KAMI Index so they did not know the maturity of the ISMS in the agency. Therefore, research was carried out to identify the risk level of the information security system at XYZ Agency using the method carried out in ISO/IEC 27001, namely the Information Security Index (KAMI) version 5.0 to determine the maturity level at XYZ Agency. The results found that Agency XYZ was still at maturity level III+, namely at level 6 of 9 levels. After receiving the results of the risk assessment, recommendations for improvement are provided in accordance with ISO 27002:2022 guidelines and the provisions and policies of Agency XYZ.

**Keywords:** ISO/IEC 27001, Information System Security, index KAMI ver 5.0, Maturity Level.