

ABSTRACT

In the era of digital transformation, government institutions are increasingly relying on information technology to support operations and public services. This dependency introduces risks to information security that must be managed with a structured and effective approach. This study aims to analyze information security risks at Diskominfo Provinsi Jawa Barat, particularly within Divisi XYZ, using the ISO/IEC 27005:2022 framework for risk analysis and COBIT 2019 Domain APO12 to determine appropriate risk control recommendations. The research method used is a qualitative approach with primary data collection through interviews, questionnaires, and observations, as well as secondary data in the form of the institution's vision and mission, organizational profile, and structure. The risk management process is carried out through stages of context establishment, risk identification, risk analysis, risk evaluation, and risk treatment based on the principles outlined in ISO/IEC 27005:2022. The findings of the study identified 15 key information security risks, with varying risk levels from low to high. Most of the risks stem from weaknesses in access control, lack of system updates, and inadequate security awareness training. Seven risks require immediate mitigation actions, while the remaining eight can be accepted with simpler controls. This research provides strategic recommendations for risk treatment based on COBIT 2019 Domain APO12, focusing on proper risk control management, such as strengthening multi-factor authentication, regular system updates, and increasing employee security awareness. The application of ISO/IEC 27005:2022 has proven effective in providing structured risk analysis, while the use of COBIT 2019 helps in determining the appropriate controls for risk mitigation. Ultimately, this approach can improve information security governance and enhance operational resilience at Diskominfo Provinsi Jawa Barat.

Keywords: ISO/IEC 27005:2022, COBIT 2019, risk management, information security, Diskominfo