

ABSTRACT

PT. XYZ is a company that focuses on Business Process Outsourcing services. The use of Information Technology assets has been carried out by PT. XYZ to support the company's business processes. Information security risk assessment is carried out using the OCTAVE Allegro method. The OCTAVE Allegro method was chosen because it covers three aspects of information security: confidentiality, integrity, and availability. This risk assessment will be a reference for making risk mitigation measures based on the international standard ISO 27001. Preparing risk mitigation measures is expected to increase the effectiveness of using Information Technology assets at PT. XYZ. The results showed that there were 15 identified risks and 14 risk mitigation points.

Keywords: information security, risk assessment, OCTAVE Allegro, ISO 27001.