ABSTRACT

The telecommunications company is one of the State-Owned Enterprises engaged in information and communication technology services as well as the most complete provider of telecommunications services and networks in Indonesia. Information is one of the most important assets for a company. There are many possible threats and risks that will occur in information assets that can disrupt the company's business goals so that it can experience financial losses and a negative reputation for the company. Therefore, companies need an assessment of risk so that companies can prevent or minimize risk. Using the OCTAVE method Allegro which focuses on information assets can perform a broad assessment of the risk environment with the aim of producing robust results without the need for extensive risk knowledge. So, in this study, we will analyze information security risks in the business of indihome service fulfillment processes using the OCTAVE Allegro method in the IT Division. This research will focus on the business process of indihome service fulfillment and use the OCTAVE Allegro method as a guideline for assessing and mitigating risk, then making control recommendations using ISO 27001:2013. From this research, there are six important impact areas as indicators for risk assessment and mitigation. The results of the identification of information assets there are three critical information assets of the eight information assets. After analyzing and identifying information assets, there are nine areas of concern for which a mitigation approach will be carried out, including six areas of concern being mitigated (mitigate) and two areas of concern being deferred (deferred). After determining the mitigation approach in the area of concern, then providing control recommendations using ISO 27001:2013 guidelines. The results of this study are expected to provide useful information for stakeholders, especially the organization can take action to prevent and minimize risk.

Keywords: Risk Management, OCTAVE Allegro, ISO 27001:2013 , Information Security, Information Assets.