

ABSTRACT

Information Technology that is growing rapidly is becoming an important role for an organization or company in providing product innovations and services in the field of information technology. The technology used can support the company in fulfilling the company's business activities. PT. Nocola IoT Solution is one of the companies in the field of information technology that focuses on the manufacture of system integrator, engineering service, weighting system, IoT development, software development, and navigation service. The services provided by this company include web development, web maintenance, domain registration, web hosting, and mobile application development. In carrying out company activities, the role of IT risk management is very important and must review the aspects of organizational structure, culture, ethics, and behavior so that company management at PT. Nocola IoT Solution is running well. Where every company will have risks, especially information technology risks that will affect business processes in the company. However, in this case PT. Nocola IoT Solution has not implemented IT risk management so that the current risk management condition is not optimal. This research was conducted to determine the current condition of risk management at PT. Nocola IoT Solution uses COBIT 5 for Risk which is a framework that focuses on IT risk management. There are several steps in carrying out risk management including making risk scenarios, risk analysis, determining risk appetite and risk responses, conducting evaluations and reviews, determining risk priorities, and making risk action plans. This research focuses on two aspects of the seven enablers in COBIT 5 for Risk, namely Organisational Structure and Culture, Ethics, and Behavior. The data obtained from this research are in the form of primary and secondary data from interviews and related documents. In the risk assessment of each aspect, a gap in the current conditions in the company with the ideal conditions of COBIT 5 for Risk was found so that this research resulted in recommendations for PT. Nocola IoT Solution. Recommendations are made based on the selected enablers in COBIT 5 and based on the results of the priority processes obtained, namely the process EDM01 Ensure Governance Framework Setting and Maintenance, APO02 Manage Strategy, APO07 Manage Human Resource, APO08 Manage Relationships, and BAI08 Manage Knowledge and the primary processes namely EDM03 Ensure Risk Optimization and APO12 Manage Risk. The recommendations given are divided into three aspects, people, process, and technology. Recommendations for enabler organizational structure include the category of people recommendations in the form of designing a new organizational structure for PT. Nocola IoT Solution. This recommendation describes the structure required by the company to manage risk optimally so that the company's risk management achieves ideal conditions based on COBIT 5 for Risk. The people's recommendation also explains a job description regarding the proposed structure including position, function of the position, main tasks, authority, reporting and responsibilities, appointment, and dismissal as well as requirements related to the given role/structure. Then, on the process aspect for enabler culture, ethics, and behavior. The recommendations given are IT risk management policies for PT. Nocola IoT Solution that can be used as a

reference or guideline for conducting an IT risk management assessment in the future. Then, the technology aspect is obtained based on the results of the analysis of the current conditions at PT. Nocola IoT Solution. Based on the results that have been obtained, recommendations for tools that can support the sustainability of organizational structure management and risk management at PT. Nocola IoT Solution related to Organisational Structure and Culture, Ethics, and Behaviour enabler.

Keywords— COBIT 5 for Risk, Risk Management, Seven Enablers