

## **ABSTRACT**

*PT. XYZ Industri is a company engaged in the electronics industry. Based on the results of interviews with information systems managers at PT. XYZ, for this research will be performed and assessment of risk assessment on asset application. In the assets of such applications have risks that may affect the company's operations. Conditions of risk management that have been done by the company is in the form of risk identification with threats that have occurred to the business processes running in the company, and the treatment will be done on each risk, the company has not fully assess the threat and assessment of existing controls. Therefore, research is conducted by designing risk assessment for risks with possible threats to the company and assessment of existing controls based on the COBIT 5 for risk framework and using the risk assessment method of ISO / IEC 27005 standard: Risk Management. Implementation of risk assessment conducted in this study refers to risk scenario and control objective in COBIT 5 for risk. This research identifies risk scenarios on IT assets and assesses existing controls based on the control objectives in COBIT 5 for risk, and then determines the risk treatment that can be used as a reference by the company to maintain the level of possible threats and impacts that may occur.*

*The result of this research is to get the risk potential from each risk, where the risk has been assessed by sequencing the assessment process according to the guidance of BS ISO / IEC 27005 and treatment that will be done for each risk.*

**Keywords:** *COBIT 5 for risk, ISO/IEC 27005, Risk Assessment, Control Objective, Risk Potential, Risk Treatment*