## *ABSTRACT*

# *DESIGN OF RISK MANAGEMENT AND INFORMATION SYSTEM SECURITY BASED ON STANDARD ISO 27001:2013 WITH PHASE CONTROL PLAN IN DANA PENSIUN TELKOM (DAPEN TELKOM) BANDUNG*

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*The importance of information and existence of the likelihood of risk occurring disorders, therefore an organisation need to design and implement information security. One of the standards that can be used ISO/IEC 27001:2013 to analyze the level of information security in organization. The purpose of this study is to measure the level of information security based on the Plan phase in accordance with the standard ISO/IEC 27001:2013 and modeling of information security management systems. This research uses qualitative descriptive type of approach, engineering data collection with engineering interviews, and observation. Data analysis was done with a gap analysis and to measure the level of maturity of the research using SSE-CMM. Based on results, Maturity level in the Organization Context clause reached level 3.5 (well – defined), clause Leadership reached level 3.3 (Well-Defined), Design and risk management clause reached level 4 (quantitatively controlled), Security Policy clause 4 (quantitatively controlled), Human Resource Security reached level 3.4 (well – defined). Based assessments maturity levels found some shortcomings in the security management of human resources in implementing the policy. Therefore, the author makes a recommendation in of policies and SOPS in compliance with clause security human resources management.*



*Keywords :Risk Management and Information System Security, Risk Analysis, ISO/IEC 27001:2013, Maturity Level,* SSE-CMM.