

ABSTRACT

In line with the increasing demand for software in Indonesia also cause increasing the number of users and software house. This is causing an increasingly tight competition between the software house in the software quality.

TELKOM RDC is a software house in which to compete in the software quality. TELKOM RDC is to create a standard that is expected SPASI can control the quality of products produced. SPASI is a TELKOM RDC internal standard that has not been tested or conducted the audit. Through this research will be a structured audit tool that can measure the extent to which the application of the SPASI in the implementation of the software development in TELKOM RDC. In preparation of the audit tool will be used continuous representation CMMI method. Preparation is done by identifying similarities between the process of software development at SPACES and the CMMI process areas. Based on the results, identification documents must be met in the implementation of the software development on TELKOM RDC.

In addition to preparing the audit tool, in this research will also be auditing the process of two software development process SPASI (the process of requirement gathering and analysis process) and two CMMI process area (requirement management process area and project planning process area). Results of research indicate that companies achieve process-level 1 for the process of requirement gathering and analysis, as well as capability level 1 for process area Requirement Management and Project Planning process area. This is due to practice and document Train people that have not been regulated in the process of software development. Researchers propose to manage the implementation of training specifically on the process that will be handling. Training is also proposed to be implemented regular. This is due to rapid development of technology, expertise so that the process of software development personnel should be improved. Proposed standards are also aimed at the internal SPASI where CMMI practices can add that has not been in SPASI.

Key words : Information Technology Audit, Continuous Representation, CMMI, SPASI.