

ABSTRACT

Telkom University is one of the educational institutions that uses a learning platform to facilitate the management of lecture data, which is named I-Gracias. The Directorate of Information Technology Center is the center of the availability of Telkom University internal services. However, the Central Directorate of Information Technology does not yet know how effective IT governance and data architecture are. This assessment was carried out to find out how the conditions of the implementation of the roadmap assessment for the two data were. Then how is the condition of the maturity level of data architecture and data governance at the Central Directorate of Information Technology, Telkom University. Furthermore, a draft recommendation will be given from the results of the assessment. Therefore, the author will conduct an assessment using the CMMI method to determine the maturity level of data management by referring to the framework Data Management Body of Knowledge and adopting seven stages of implementation roadmap. In previous studies, the assessment criteria have been designed using the DAMA-DMBOK framework which is juxtaposed with the maturity level criteria of the IBM model Data Governance. So that in this assessment there are differences in determining the assessment criteria. In its application the DAMA-DMBOK framework will help in managing good data management for the company. This assessment is carried out in four stages and one stage of solution design. The four stages will be used as a reference for making solutions from the gap analysis and potential improvement. With the gap analysis, recommendations will be made for each gap. The recommendations that will be given cover three aspects, namely, people, process, and technology. Furthermore, the results of recommendations and solutions will be compiled using a timeline roadmap to determine the priority design of the solutions that must be carried out.

Keywords—CMMI, Direktorat Pusat Teknologi Informasi, Data Management Body of Knowledge, I-Gracias, Universitas Telkom