ABSTRACT

ANALYSIS AND MEASUREMENT OF DATA CENTER CABLING SYSTEM WITH TIA-942 STANDARD AT DIRECTORATE SISFO TELKOM UNIVERSITY

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Telkom University is one of the universities engaged in ICT. To reach the international university, Telkom University has a Data Center as one of the important components for the sustainability of information technology. Telkom University Information System Directorate is a unit that manages and implements Data Centers at Telkom University. At present, the Directorate of University Information Systems Telkom has a data center spread over three rooms.

The three rooms of the data center are planned to be combined into one Data Center located in the Damar Room IF1.01.07 Building, therefore re-analysis and measurement are needed especially on the things discussed by the author, namely Cooling Management. In terms of analysis and measurement, the PPDIOO Network Life-Cycle Approach method is used in the first three stages, namely Prepare, Plan, and Design. The use of the PPDIOO Life-Cycle Approach method is compatible with the development of the Telkom University Information System Directorate Data Center because it has a cycle phase and the Optimize stage is needed for long-term development.

The purpose of this study was to produce an analysis of the design of the Telkom University Information Systems Cabling Management Data Center in accordance with the TIA-942 standard. The final results will be in the form of design proposals from the results of data center analysis at the Telkom University Information System Directorate.

Keywords: Data Center, Cabling System, ANSI/TIA-942