ABSTRACT

Telkom University is the result of a merger of four institutions which is

Institut Teknologi Telkom (IT Telkom), Institut Manajemen Telkom (IM Telkom),

Politeknik Telkom, and Sekolah Tinggi Seni Rupa dan Desain Indonesia Telkom

(STISI Telkom). The continuity of business processes is a necessary condition for

an organization to achieve its objectives. University is an institution that can not

be separated from the use of information Techonology (IT). Data center is

important component in ensuring the sustainability of IT. At the current state,

each of institution has a data center respectively.

Based on strategic plan of the future, data center will be combined into a

single data center located in Telkom Engineering School (TESC) which was a

change of IT Telkom. Therefore needed a new data center design which is a

merger of each data center from every institution. In this design using Network

Development Life Cycle (NDLC) in the first three stages:analysis, design, and

prototyping. The use of method NDLC is matching with data center development

in Telkom University and have an adventages in that cycle stage form, so it can

accommodate continuous improvement.

The goal of this research is generating new data center design that match

the standards and achieve the level on the tier-2 with reference to the TIA-942 as

the standart for data center design. The end result is a floor plan of the new

location with support area, with the design of electrical systems, cooling systems,

cable tray flow, the use of raised floor, and layout of the room.

Key Word: data center, network, server, NDLC, TIA-942

įν