ABSTRACT

Bogor City Government is a government agency that has a work program and an obligation to take care of all community needs in the Bogor City area. One work program is to provide services to the public in the field of communication and informatics. The agency that has this task in the Bogor City Government is the Department of Statistics Communication Information Agency (DISKOMINFOSTANDI). Based on the needs in community service, the Bogor City Government data center has a Long-Term Design managed by DISKOMINFOSTANDI, the plan focuses on increasing the number of devices aimed at improving Information Technology services to the people of Bogor, therefore a good server development plan is needed meeting community needs in accordance with long-term plans. In designing server management for data centers refers to the TIA-942 Standard and uses the Network Development Life Cycle (NDLC) method which focuses on the initial three stages, namely the analysis, design, and prototyping simulation stages, this method is chosen because this method is very structured and appropriate with the plan of the Bogor City Government in developing a data center in a gradual and continuous manner. The design of a management server that complies with the TIA-942 standard for DISKOMINFOSTANDI in the City of Bogor is the final result of this research. The results of this design are in the form of a proposed server management concept that focuses on the load balancing function, as well as adding patch panels and PDUs without power buttons on the server rack that are used to meet the required service needs. With the proposal given can reduce the percentage of packet loss from 0.8% in leisure time to 0%, and 16.4% at peak times, to 0% which meets the very good category of THIPON standard.

Keywords: *Data center*, NDLC, TIA-942 *Standard*, *Server management*.