## ABSTRACT

According to the draft Article 2 paragraph 3 of the Minister of Communication and Information Regulation, data center service providers are responsible for the approval and construction of data centers in accordance with topological standards selected according to needs based on business needs studies and business influence analysis (business impact analysis). However, in its implementation, the DISKOMINFO Bandung Government infrastructure data center still does not meet several aspects that are in accordance with the standard, so a design that is in accordance with the standard is needed to be used as a benchmark. With the standard, the development data center can support internationally and can be implemented according to the standards to be achieved or supported. The standard used in this study is the standard EN 50600. The standard used in this study is EN 50600-2-4 concerning Telecommunication Cabling infrastructure using Availability Class which discusses cabling and monitoring & controlling systems and EN 50600-3-1 Management and Operational Information that discuss about operational management. Then make a measurement plan at the data center, a research method is needed that is in accordance with what is requested. In this study the method used is the PPDIOO *Life-cycle approach*. The design of this data sub-center proposes a cabling system and operational data center management in accordance with the EN 50600 standard.

Keywords : *data center*, cabling system, operational management, sub *data center*, EN 50600, PPDIOO *Life-cycle approach*