

ABSTRACT

Telecommunications company in Indonesia are currently experiencing a very rapid development. This situation is supported by the increasingly sophisticated telecommunication tools and the public's need for information is increasing. In designing EA, an architectural framework is needed to develop a broad scope of discussion of different architectures covering business, data, applications, and technology. Looking at the current state of company engaged in the telecommunications industry, reference architectures such as business process framework (eTOM), information framework (SID), and application framework (TAM) are needed to coordinate business processes, information systems and enterprise applications, but this reference architecture cannot yet be applied or implemented directly to structure the architecture of each domain and processes in telecommunications compan because each company has different business processes, information systems and applications. Based on this, more research is needed on how to design reference architecture in company engaged in the telecommunications industry using the framework used as a reference, namely eTOM, SID and TAM. In the analysis and design of this study using TOGAF ADM. in TOGAF ADM there are processes used in this research, namely Preliminary Phase, Architecture Vision, Business Architecture, Information Systems Architecture where in each phase determine/determine information related to the telecommunications company and produce artifacts for EA design. This research produces an architectural design using TOGAF consolidation with Frameworx, namely eTOM, SID and TAM in telecommunications companies in the capacity management process. First, the results of the analysis and design of standardized architectural principles and visions, namely channel, application, and platform. Second, the results of the analysis and design of business architecture using eTOM in the form of organizational units and processes. Third, the results of the analysis and design of data architecture using SID in the form of entities in the application of strategic planning and operation support systems. Fourth, the results of the analysis and design of the application architecture using TAM which is described by the application of strategic planning for strategic planning related to services and the application

of the operation support system that is used to support the operation of the service.

Keywords — EA, TOGAF ADM, Telecommunications Company, eTOM, SID and TAM.