ABSTRACT

Iwan Cakrayana, Designing Enterprise Architecture Using TOGAF ADM for Implementation National Standards Of Education In High School (Case Study: SMA Plus PGRI Cibinong). Under direction of MEUTHIA RACHMANIAH and FIRMAN ARDIANSYAH.

One of area that felt exposure of the impact of information and communication technology development is education area. The Enterprise Architecture in this research was applied to senior secondary school and piloted for SMA Plus PGRI Cibinong high school, which is a model school (SKM-PBKL-PSB). It is expected that the school and its stakeholder will have better information access. Therefore the school required an information system that are dynamic, fast, efficient, and connected in one integrated network. The Information System constructed employ 8 (eight) National Standards of Education in the Republic of Indonesia. The design of an architecture enterprise requires framework and methodology. TOGAF ADM is a method that provides detail modeling, development, and implementation of architecture enterprise. The stages of TOGAF ADM is a preliminary: framework and principle, Requirement management, architecture vision, business architecture, information system architecture, technology architecture, opportunities and solutions, migration planning, implementation governance, and change management. On preliminary phase obtained management commitment for the development of enterprise architecture contained in the policy management. Requirement management done to identify SMA Plus PGRI Cibinong needs. On architecture vision phase result in the form of a foundation that is used as a reference in the development of information system. Result of business architecture is 45 business function. Information system divided into data architecture and application architecture. On data architecture consists of 36 data entities and for application architecture consists of 32 application. On technology architecture phase found that current technology platform is sufficient and needs some improvement in hardware. On opportunities and solution for comparision of data found that only 6 data entities is appropriate with proposed data entities. While for comparision of application exist 25 application modul are not yet available. On comparision of technology, proposed concept is client server, adding PC, and fingerprint attendance machine. On migration planning found priority project, expense, number of human resources necessary for development information system. On implementation governance phase, IT governance refers to circular finance ministry Republic of Indonesia No:SE-5/PJ/2011 about IT governance. Change management phase is a strategies and stages for implementation information in SMA Plus PGRI Cibinong.

Keywords: Information System, Architecture Enterprise, TOGAF ADM