A Case Study on Planning of Information Technology Architecture Using Client/Server Systems

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ABSTRACT

Owning to the rise of Open System, the role of adopting thesuitable Information Technology was changed from acceptation ofsolution provided by venders into the actively choosing proper one, sothat enterprise needs an Information Technology Architecture, ITA, asthe referential criteria of information technology in long run. The paper that quotes and integrates the component standard anddata distribution criteria from the literature review is to developthe significantly referential standard of constructing the ITA by thebasis of Client/Server system.The paper that quotes and integrates thecomponent standard and data distribution criteria from the literatureveview is to develop the significantly referential standard ofconstructing the ITA by the basis of Client/Server system.By the casestudy, the paper investigates the status and results of planning a ITAin advance. At last, this paper will present several steps of planningaccording to process of case study. The paper proposes the five steps to plan a ITA. Those steps are:building component''''s standards, analysis of data distribution, design,the feasible solution, comparing the feasible solutions, and thesuitable feasible solution(planning the ITA). Building component''''sstandards is defined by the vender solutions and open systemstandards. The analysis of data distribution use "Data DistributionMatrix" as tools to determine how to allocate the data distributiontype and location. The designs of feasible solutions are developed byfive requirements. The comparisons of feasible solutions are accordingto 10 criteria and produce a comparison table. While the suitablefeasible solution was chosen, it should state the difference betweenthe previous and the new. Finally, this research investigates the impacts on the currentorganization and application system, and propose the suggestion on thecurrent, and limitations of this paper and the future research issueswill be proposed.

Keywords : Information Technology Architecture Planning ; Case Study ; Data Distribution Criteria ; Client/Server System ; Component Standard

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