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

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ABSTRACT
Owing to the rise of Open System, the role of adopting the suitable Information Technology was changed from acceptation of solution provided by vendors into the actively choosing proper one, so that enterprise needs an Information Technology Architecture, ITA, as the referential criteria of information technology in long run. The paper that quotes and integrates the component standard and data distribution criteria from the literature review is to develop the significantly referential standard of constructing the ITA by the basis of Client/Server system. The paper that quotes and integrates the component standard and data distribution criteria from the literature review is to develop the significantly referential standard of constructing the ITA by the basis of Client/Server system. By the case study, the paper investigates the status and results of planning a ITA in advance. At last, this paper will present several steps of planning according 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 the suitable feasible solution (planning the ITA). Building component’s standards is defined by the vendor solutions and open system standards. The analysis of data distribution use “Data Distribution Matrix” as tools to determine how to allocate the data distribution type and location. The designs of feasible solutions are developed by five requirements. The comparisons of feasible solutions are according to 10 criteria and produce a comparison table. While the suitable feasible solution was chosen, it should state the difference between the previous and the new. Finally, this research investigates the impacts on the current organization and application system, and propose the suggestion on the current, and limitations of this paper and the future research issues will be proposed.

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

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0 REFERENCES

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